

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032350.D
 Acq On : 15 Aug 2018 11:17
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 8/17/2018 2:06:24 PM

Quant Time: Aug 15 12:57:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 2018
 QLast Update : Wed Aug 15 11:44:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	2275982	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.35	114	4674086	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.30	117	4567640	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.64	95	3507945	9.89	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.11	85	245172	0.89	ppbv	99
3) Chlorodifluoromethane	3.05	51	227495	1.00	ppbv	99
4) Chloromethane	3.21	50	132285	0.96	ppbv #	87
5) Vinyl Chloride	3.33	62	122413	0.98	ppbv	98
6) Bromomethane	3.56	94	65994	0.96	ppbv	91
7) Chloroethane	3.64	64	43059	0.97	ppbv	96
8) Dichlorotetrafluoroethane	3.26	85	279966	1.01	ppbv	99
9) Propene	3.07	41	87132	0.85	ppbv	99
10) Heptane	8.31	43	276164	0.77	ppbv	98
11) Trichlorofluoromethane	4.05	101	280869	1.07	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.60	101	187643	1.05	ppbv	98
13) Ethanol	3.70	45	27389	0.93	ppbv	99
14) Bromoethene	3.83	108	77918	0.99	ppbv #	98
15) Acetone	3.95	43	249271	1.16	ppbv	100
16) 1,3-Butadiene	3.40	39	96602	0.87	ppbv	96
17) tert-Butyl alcohol	4.42	59	42420	0.62	ppbv	95
18) 1,1-Dichloroethene	4.40	96	82808	1.00	ppbv	93
19) Isopropyl Alcohol	4.08	45	157895	1.10	ppbv #	95
20) Methylene Chloride	4.46	84	93083	1.08	ppbv	94
21) Allyl Chloride	4.53	41	140747	0.96	ppbv	95
22) trans-1,2-Dichloroethene	5.02	96	85034	1.06	ppbv	88
23) Vinyl Acetate	5.21	43	427063	1.11	ppbv #	97
24) 1,1-Dichloroethane	5.14	63	289824	1.05	ppbv	99
25) Ethyl Acetate	5.83	43	483752	1.00	ppbv	99
26) Hexane	5.83	57	210356	0.97	ppbv	93
27) Carbon Disulfide	4.67	76	188858	0.95	ppbv #	92
28) Methyl tert-Butyl Ether	5.17	73	272933	0.93	ppbv	100
29) Chloroform	5.90	83	327936	1.04	ppbv	98
30) Cyclohexane	7.31	84	149270	0.88	ppbv #	64
31) cis-1,2-Dichloroethene	5.69	61	201640	1.00	ppbv	98
32) 1,1,1-Trichloroethane	6.67	97	312940	1.12	ppbv	100
34) 2-Butanone	5.39	43	329506	1.09	ppbv	99
35) Carbon Tetrachloride	7.19	117	295223	1.11	ppbv	98
36) Benzene	7.06	78	406774	0.99	ppbv	99
37) 1,2-Dichloroethane	6.47	62	252769	1.06	ppbv	100
38) Trichloroethene	8.02	130	142488	0.89	ppbv	93
39) 1,2-Dichloropropane	7.79	63	171853	0.83	ppbv	95
40) 1,4-Dioxane	8.04	88	51525m	0.85	ppbv	
41) Tetrahydrofuran	6.22	42	164928	0.96	ppbv	99
42) Bromodichloromethane	7.98	83	326416	0.85	ppbv	98
43) Methyl Methacrylate	8.20	69	154284	0.78	ppbv	99

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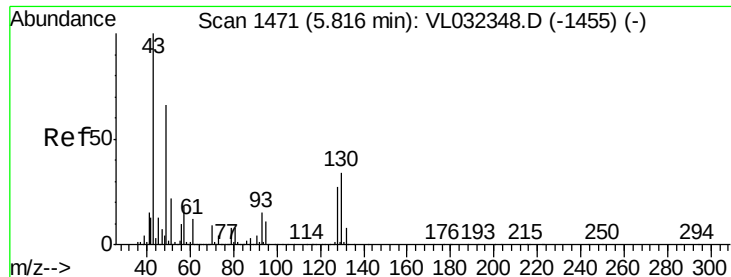
Manual Integrations
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Quant Time: Aug 15 12:57:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.05	57	771067	0.86	ppbv	98
45) t-1,3-Dichloropropene	9.48	75	185532	0.81	ppbv	93
46) cis-1,3-Dichloropropene	8.90	75	230680	0.82	ppbv	98
47) 1,1,2-Trichloroethane	9.68	97	198623	0.99	ppbv	94
48) Dibromochloromethane	10.51	129	242884	0.82	ppbv	100
49) Bromoform	13.27	173	212590m	0.87	ppbv	
50) 4-Methyl-2-Pentanone	8.95	43	485857	0.91	ppbv	100
51) 2-Hexanone	10.35	43	306663	0.75	ppbv #	97
52) Tetrachloroethene	11.44	164	124441	0.90	ppbv	92
53) Toluene	10.01	91	395772	0.80	ppbv	99
54) 1,2-Dibromoethane	10.83	107	239391	0.84	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.34	131	197005	1.05	ppbv #	1
57) Chlorobenzene	12.37	112	369276	1.04	ppbv #	97
58) Ethyl Benzene	12.94	91	555143	0.97	ppbv	98
59) m/p-Xylene	13.21	91	984105m	2.02	ppbv	
60) o-Xylene	13.92	91	497997	1.04	ppbv	95
61) Styrene	13.75	104	307732	0.87	ppbv	99
62) Isopropylbenzene	14.89	105	689716	1.02	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.90	83	423465	1.09	ppbv	100
64) n-propylbenzene	15.79	120	174715	0.99	ppbv	86
65) tert-Butylbenzene	16.98	119	603139	1.05	ppbv	100
66) Benzyl Chloride	17.22	91	293613	0.86	ppbv	94
67) sec-Butylbenzene	17.52	105	885875	1.03	ppbv	98
69) p-Isopropyltoluene	17.88	119	660971	0.99	ppbv	99
70) n-Butylbenzene	18.78	91	734925	0.96	ppbv	96
71) 2-Chlorotoluene	15.69	91	524887	0.98	ppbv	98
72) 4-Ethyltoluene	16.07	105	519941	0.97	ppbv	98
73) 1,3,5-Trimethylbenzene	16.22	105	499869	0.95	ppbv	96
74) 1,2,4-Trimethylbenzene	16.99	105	561204	1.01	ppbv	97
75) 1,3-Dichlorobenzene	17.23	146	334591	1.04	ppbv	94
76) 1,4-Dichlorobenzene	17.38	146	312502	1.01	ppbv	98
77) 1,2-Dichlorobenzene	18.06	146	313538m	0.99	ppbv	
78) Hexachloro-1,3-Butadiene	23.61	225	112726m	1.01	ppbv	
79) Naphthalene	22.50	128	304055m	0.63	ppbv	
80) Naphthalene, 2-methyl-	25.17	142	20893	0.11	ppbv	90
81) 1,2,4-Trichlorobenzene	22.22	180	175680	0.73	ppbv	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. -0.02 min

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Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 49 Resp: 2275982

Ion Ratio Lower Upper

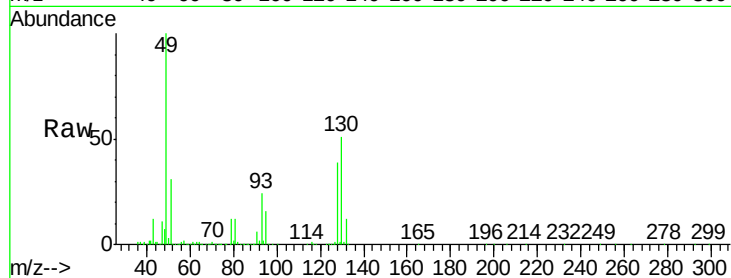
49 100

128 40.1 20.2 60.6

130 51.7 25.8 77.3

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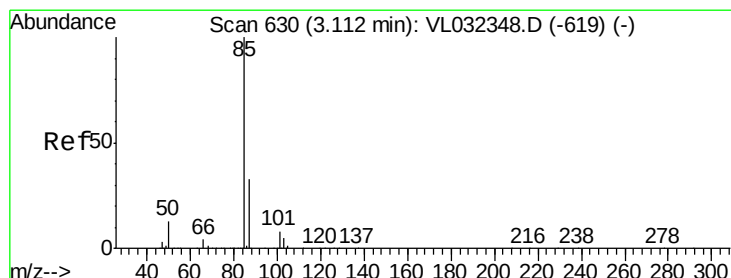
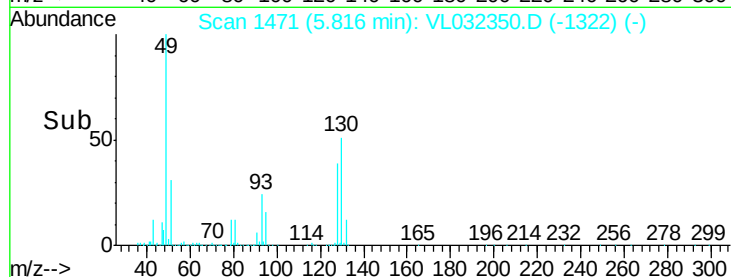
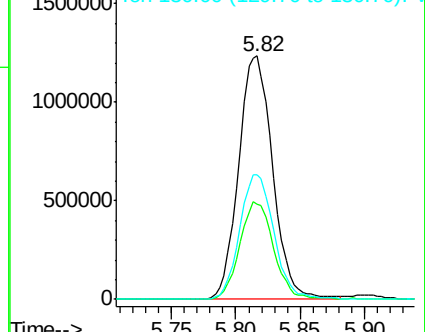
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.89 ppbv

RT: 3.11 min Scan# 630

Delta R.T. -0.01 min

Lab File: VL032350.D

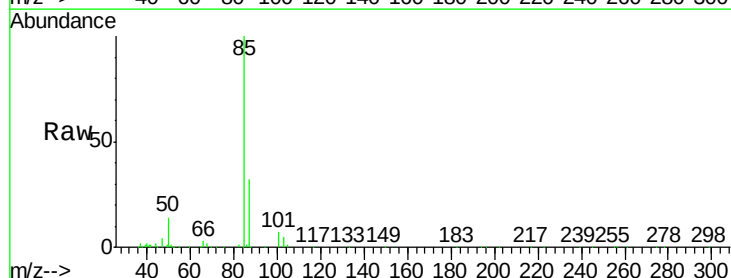
Acq: 15 Aug 2018 11:17

Tgt Ion: 85 Resp: 245172

Ion Ratio Lower Upper

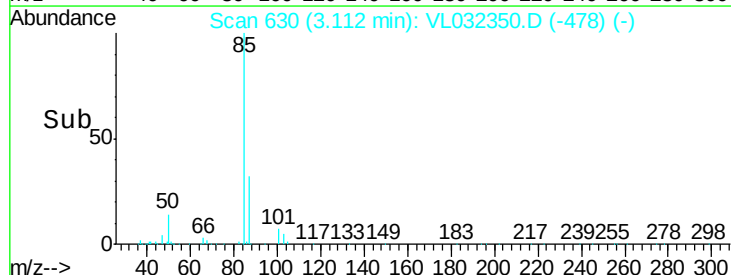
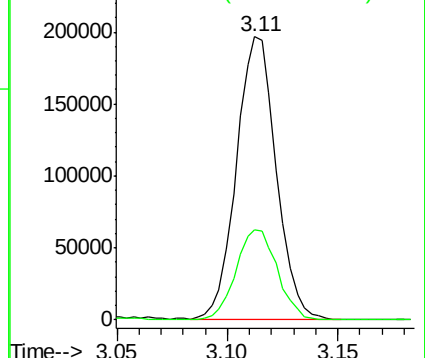
85 100

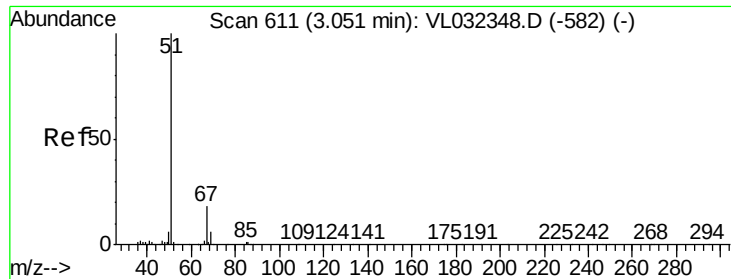
87 32.0 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.00 ppbv

RT: 3.05 min Scan# 611

Delta R.T. -0.01 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 51 Resp: 227495

Ion Ratio Lower Upper

51 100

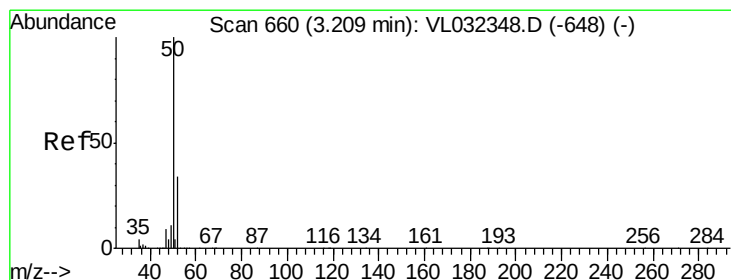
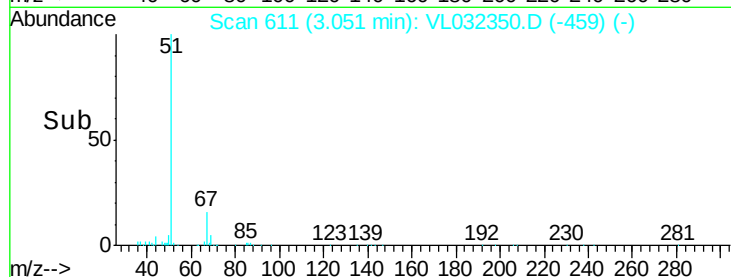
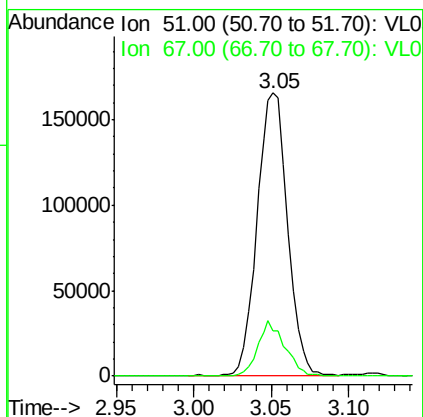
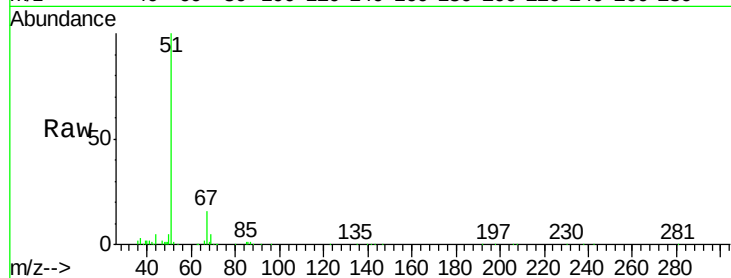
67 17.4 13.5 20.3

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#4

Chloromethane

Concen: 0.96 ppbv

RT: 3.21 min Scan# 660

Delta R.T. -0.01 min

Lab File: VL032350.D

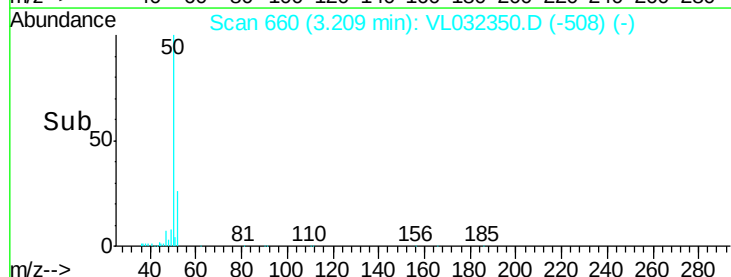
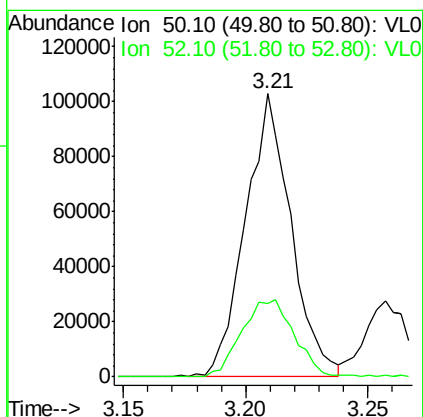
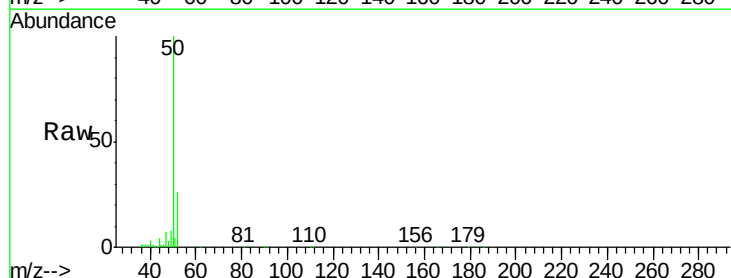
Acq: 15 Aug 2018 11:17

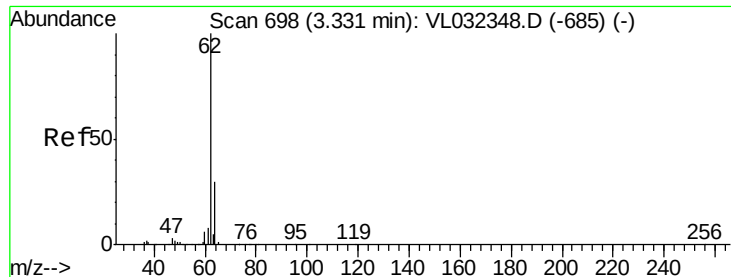
Tgt Ion: 50 Resp: 132285

Ion Ratio Lower Upper

50 100

52 25.6 26.2 39.4#





#5

Vinyl Chloride

Concen: 0.98 ppbv

RT: 3.33 min Scan# 697

Delta R.T. -0.01 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleID :

VSTDIC001

Tot Ion: 62 Resp: 122413

Ion Ratio Lower Upper

62 100

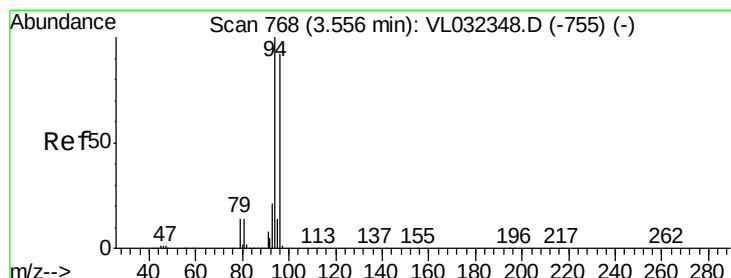
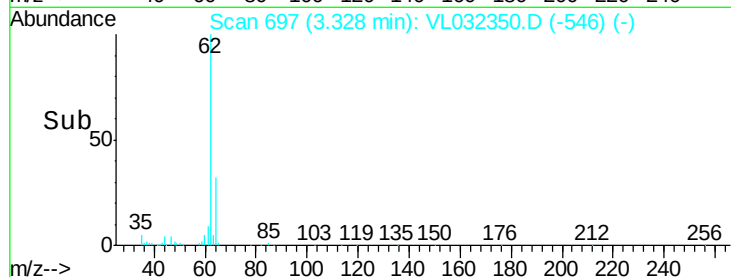
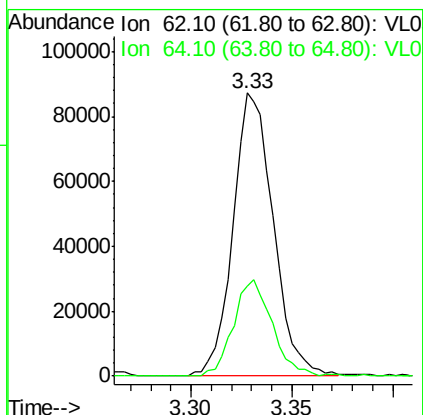
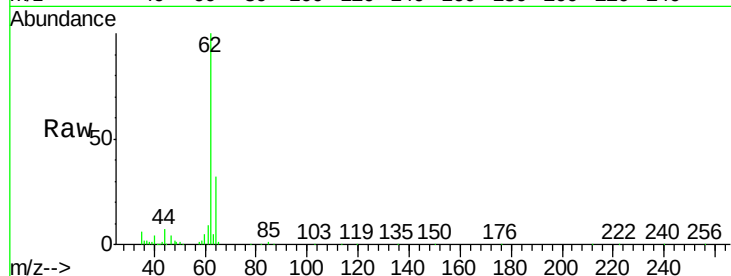
64 31.4 24.1 36.1

Manual Integrations

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#6

Bromomethane

Concen: 0.96 ppbv

RT: 3.56 min Scan# 768

Delta R.T. -0.01 min

Lab File: VL032350.D

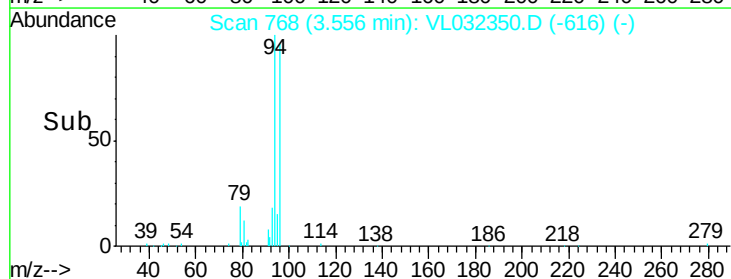
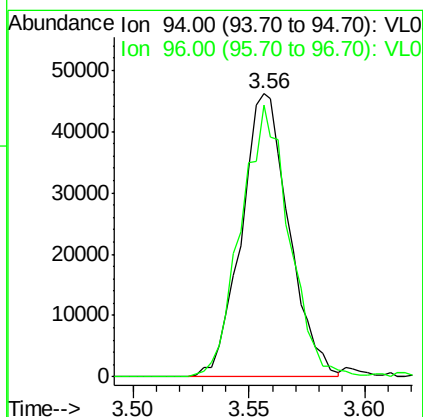
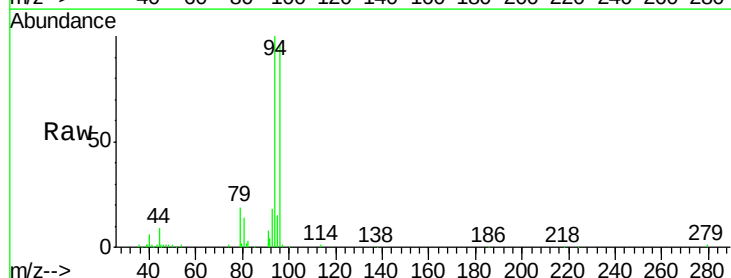
Acq: 15 Aug 2018 11:17

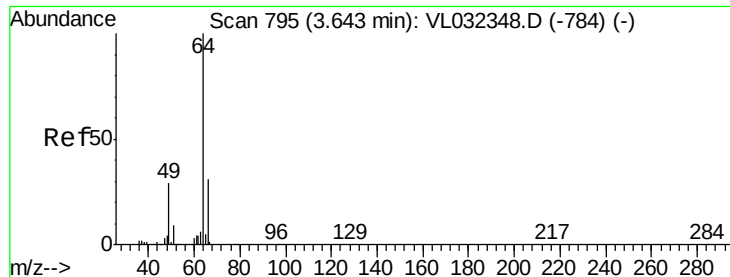
Tgt Ion: 94 Resp: 65994

Ion Ratio Lower Upper

94 100

96 96.0 70.2 105.4





#7

Chloroethane

Concen: 0.97 ppbv

RT: 3.64 min Scan# 795

Delta R.T. -0.01 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 43059

Ion Ratio Lower Upper

64 100

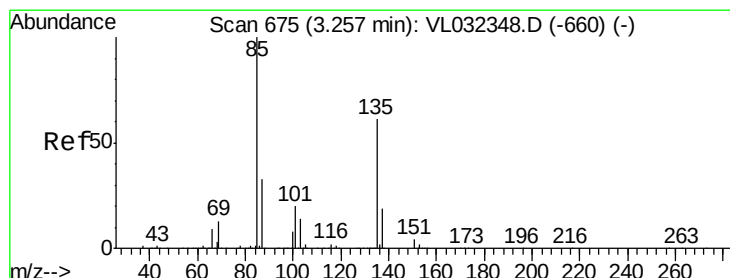
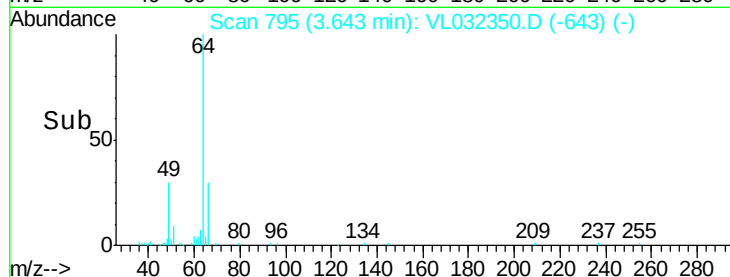
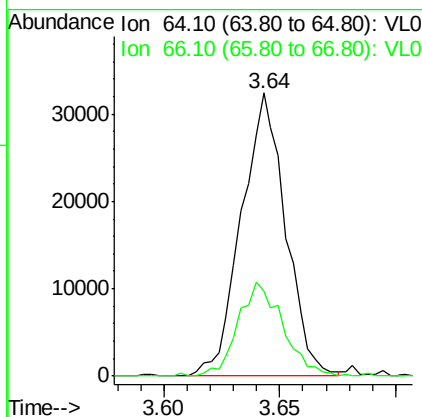
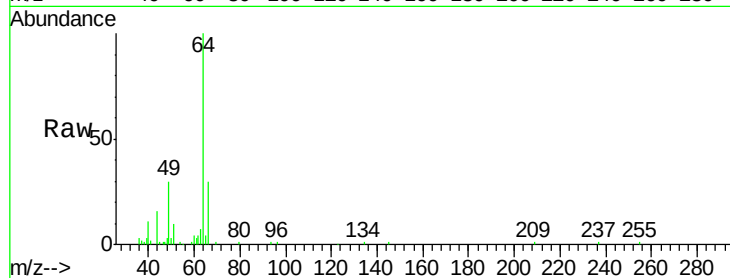
66 29.9 25.7 38.5

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 1.01 ppbv

RT: 3.26 min Scan# 676

Delta R.T. -0.01 min

Lab File: VL032350.D

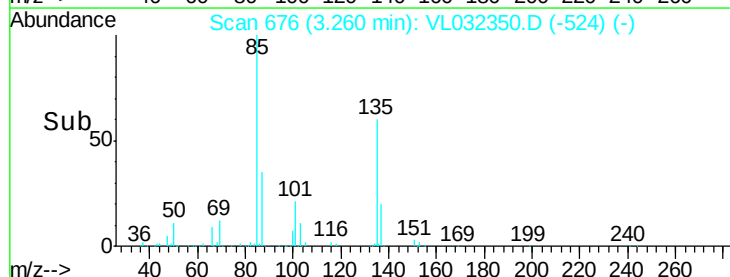
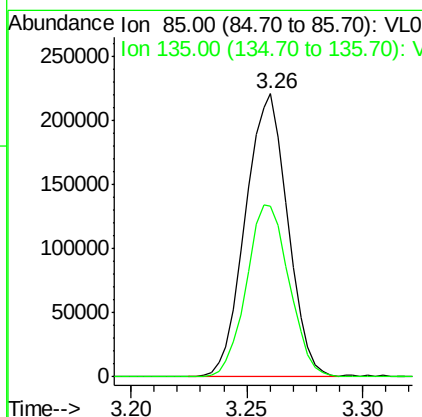
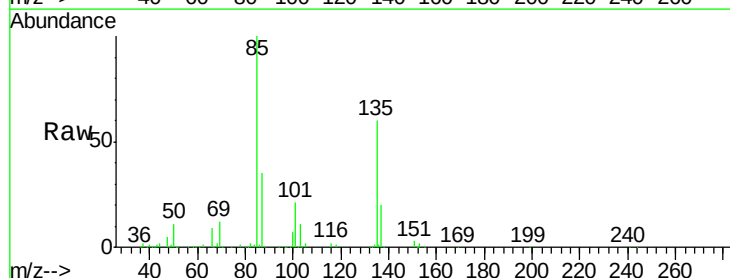
Acq: 15 Aug 2018 11:17

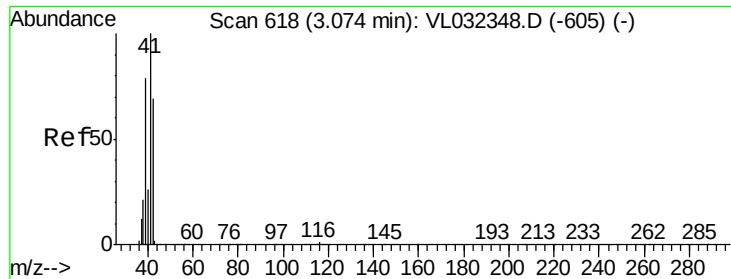
Tgt Ion: 85 Resp: 279966

Ion Ratio Lower Upper

85 100

135 61.7 48.7 73.1





#9

Propene

Concen: 0.85 ppbv

RT: 3.07 min Scan# 618

Delta R.T. -0.01 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 87132

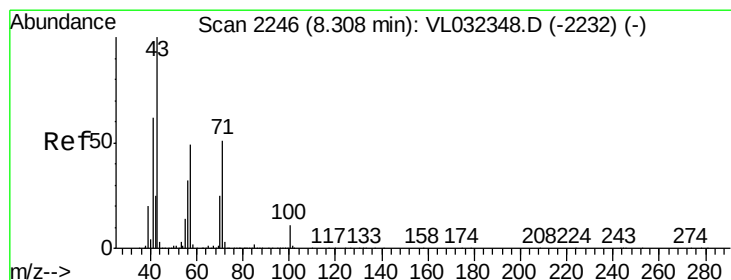
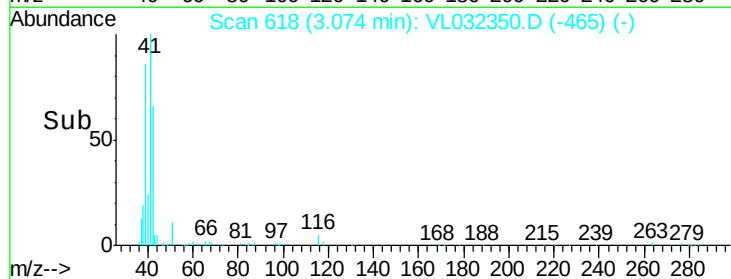
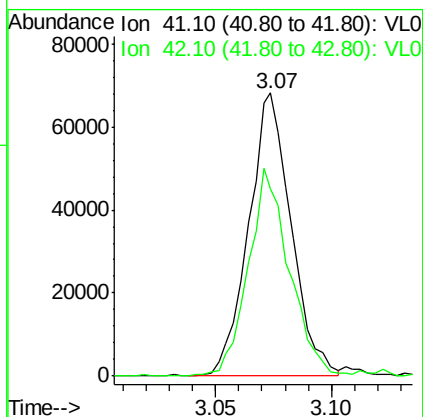
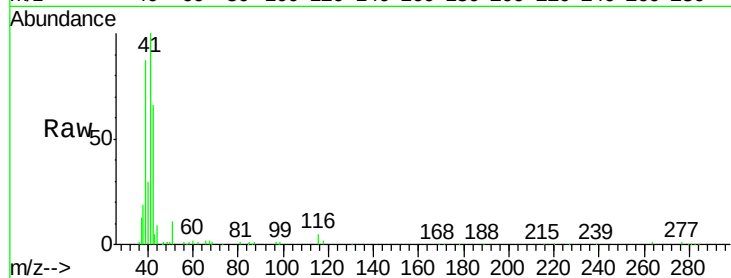
Ion Ratio Lower Upper

41 100

42 72.1 56.8 85.2

Manual Integrations
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#10

Heptane

Concen: 0.77 ppbv

RT: 8.31 min Scan# 2246

Delta R.T. -0.02 min

Lab File: VL032350.D

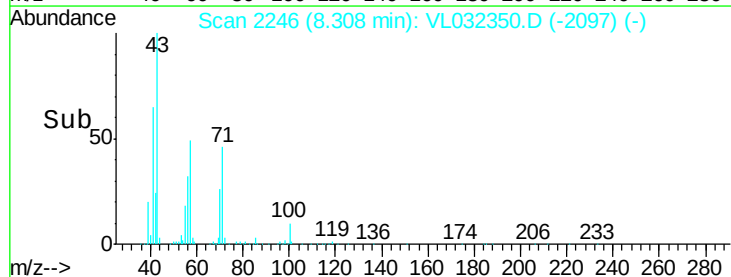
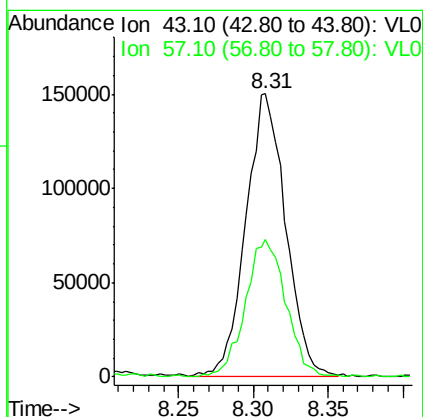
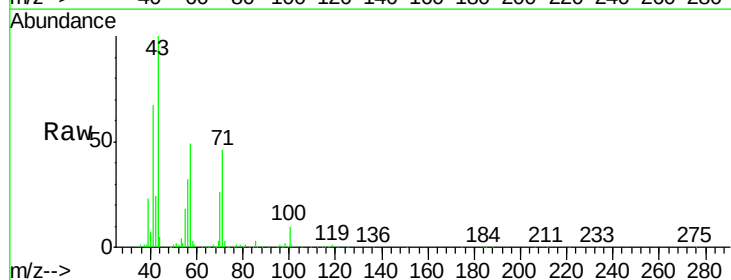
Acq: 15 Aug 2018 11:17

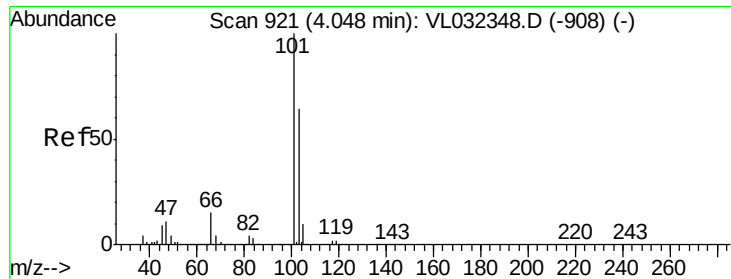
Tgt Ion: 43 Resp: 276164

Ion Ratio Lower Upper

43 100

57 50.1 39.0 58.4





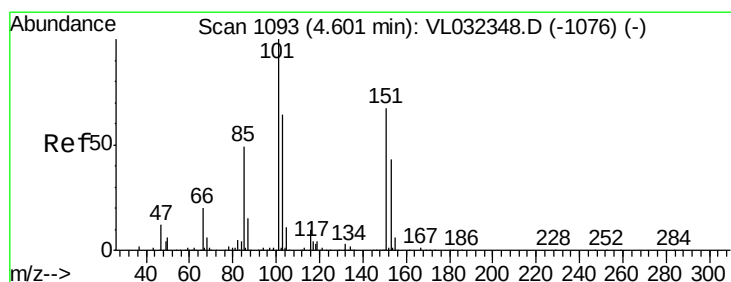
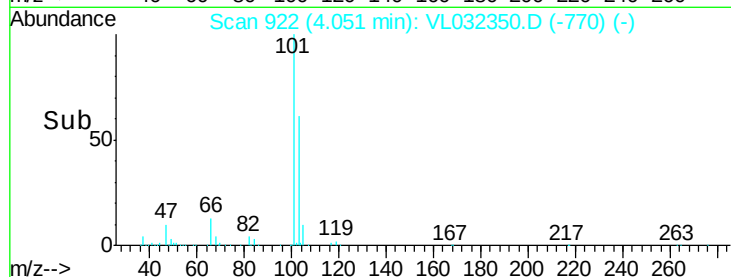
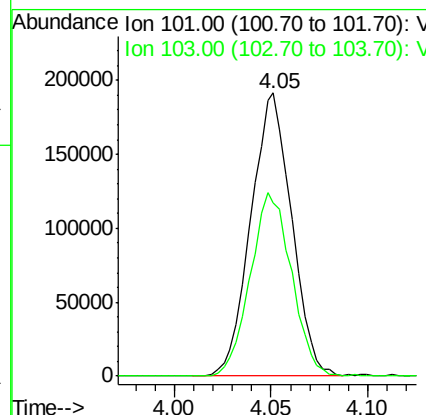
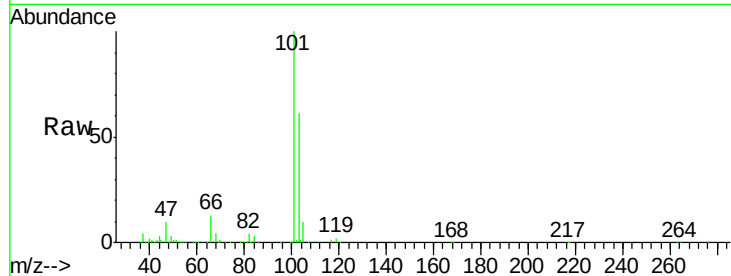
#11
 Trichlorofluoromethane
 Concen: 1.07 ppbv
 RT: 4.05 min Scan# 922
 Delta R.T. -0.01 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
101	100	280869		
103	61.1	52.6	78.8	

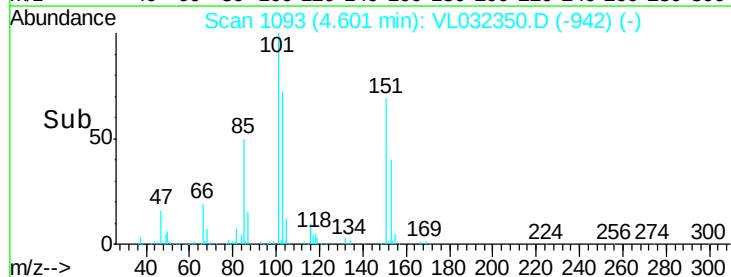
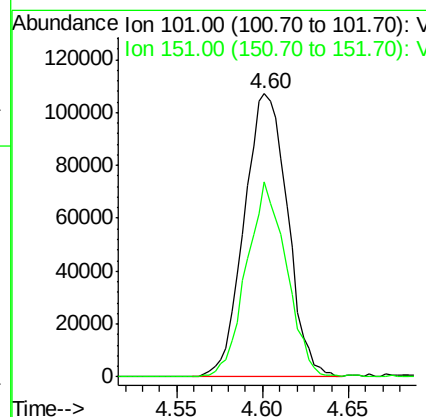
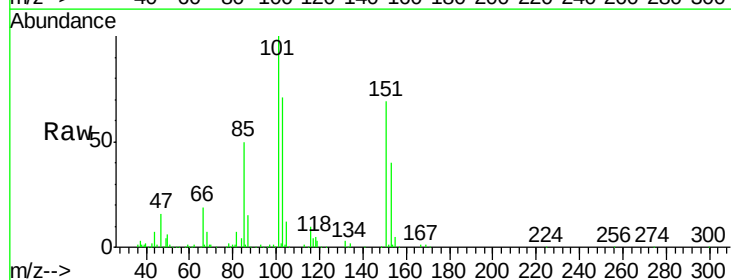
Manual Integrations
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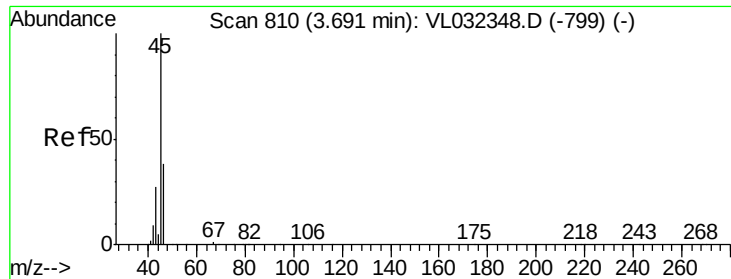
MMDadoda
 8/17/2018 2:06:24 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.05 ppbv
 RT: 4.60 min Scan# 1093
 Delta R.T. -0.01 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	187643		
151	63.9	52.4	78.6	





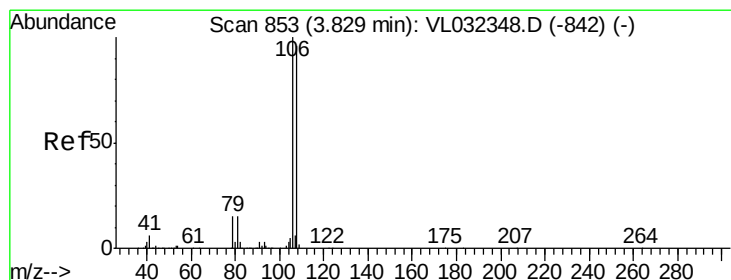
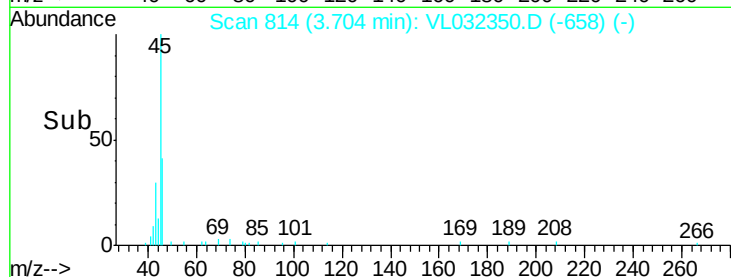
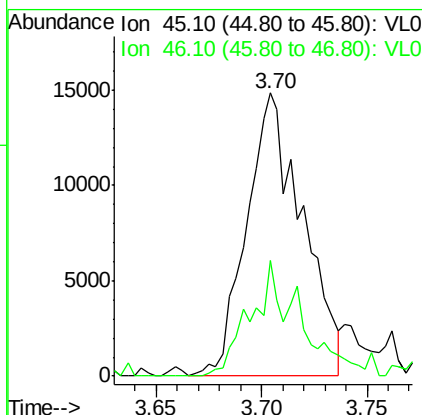
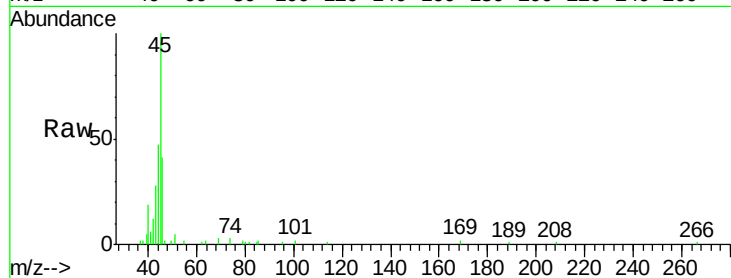
#13
Ethanol
Concen: 0.93 ppbv
RT: 3.70 min Scan# 814
Delta R.T. 0.00 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 45 Resp: 27389
Ion Ratio Lower Upper
45 100
46 37.1 15.2 60.6

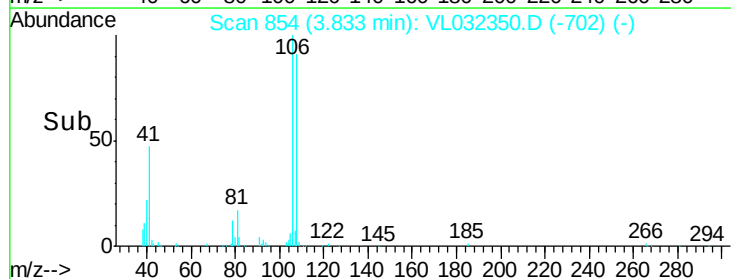
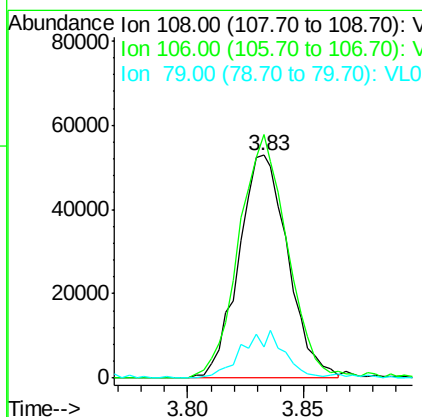
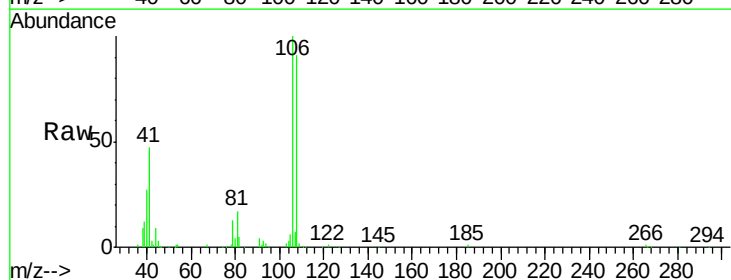
Manual Integrations
APPROVED

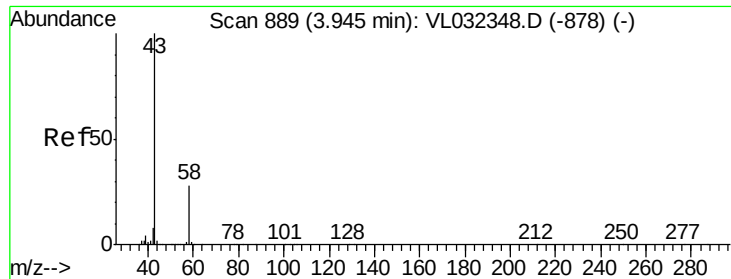
MMDadoda
8/17/2018 2:06:24 PM



#14
Bromoethene
Concen: 0.99 ppbv
RT: 3.83 min Scan# 854
Delta R.T. -0.01 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Tgt Ion: 108 Resp: 77918
Ion Ratio Lower Upper
108 100
106 108.9 86.0 129.0
79 19.5 12.8 19.2#





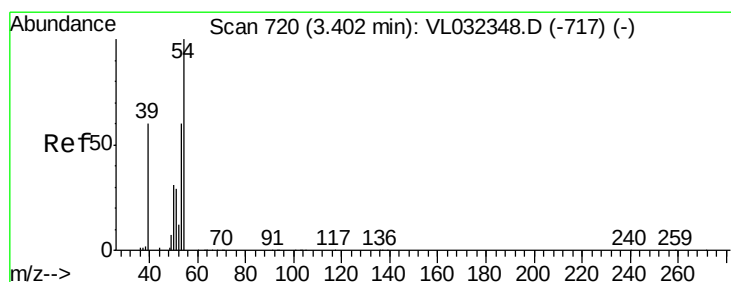
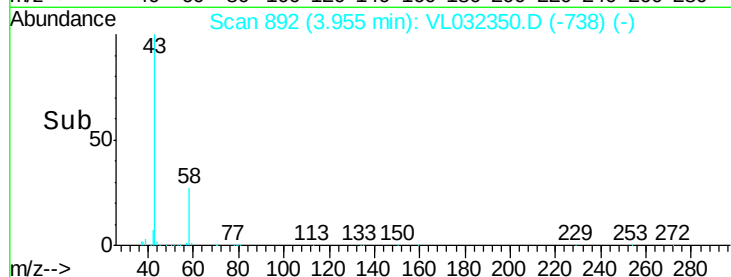
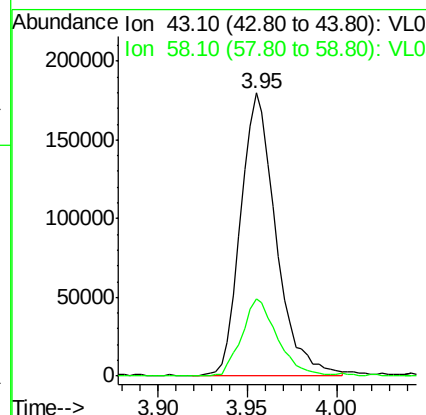
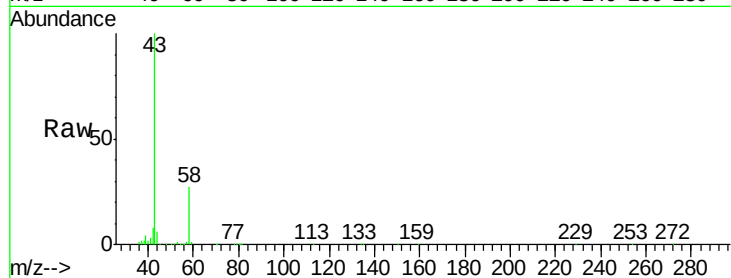
#15
Acetone
Concen: 1.16 ppbv
RT: 3.95 min Scan# 892
Delta R.T. -0.00 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
58	28.1	22.5	33.7

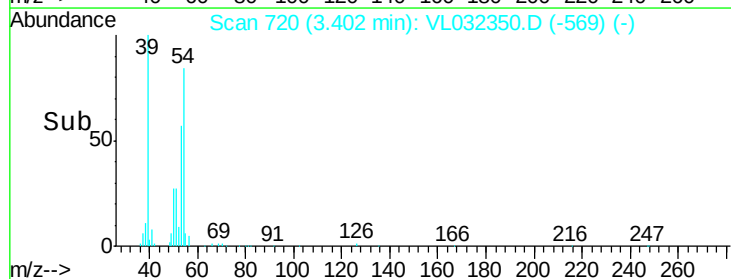
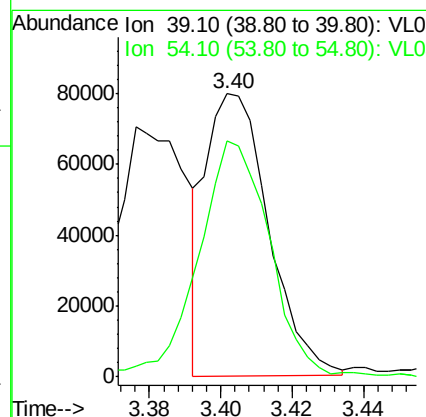
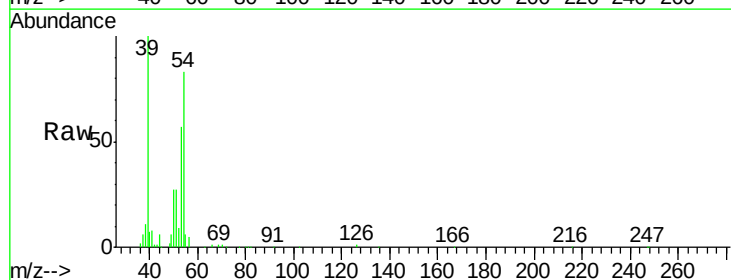
Manual Integrations
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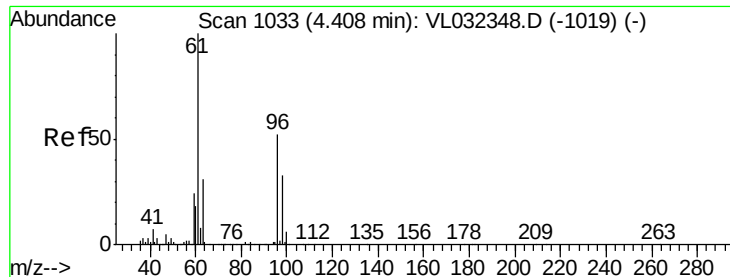
MMDadoda
8/17/2018 2:06:24 PM



#16
1,3-Butadiene
Concen: 0.87 ppbv
RT: 3.40 min Scan# 720
Delta R.T. -0.01 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Tgt Ion	Ratio	Lower	Upper
39	100		
54	96.5	74.3	111.5





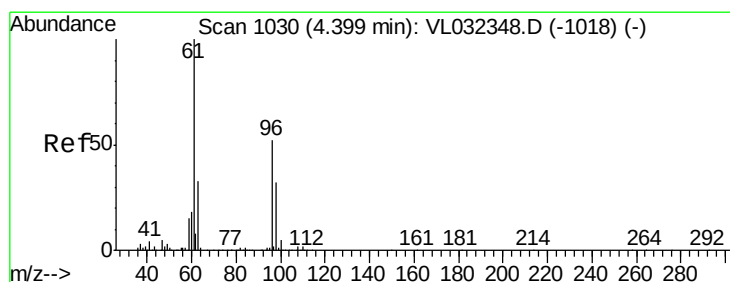
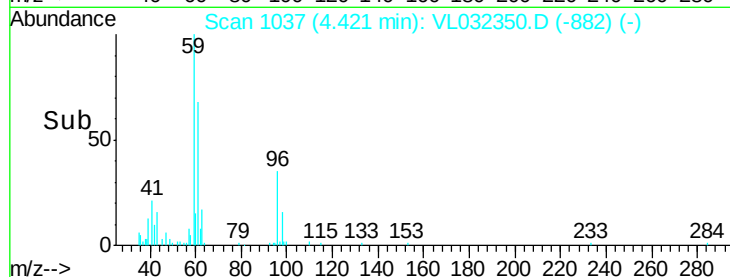
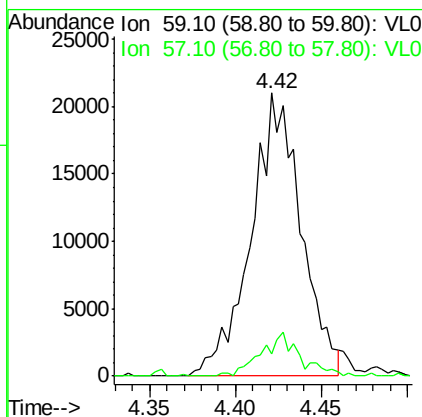
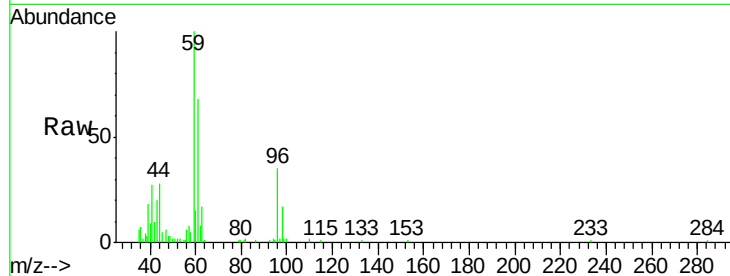
#17
 tert-Butyl alcohol
 Concen: 0.62 ppbv
 RT: 4.42 min Scan# 1037
 Delta R.T. -0.00 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion: 59 Resp: 42420
 Ion Ratio Lower Upper
 59 100
 57 12.0 8.0 12.0

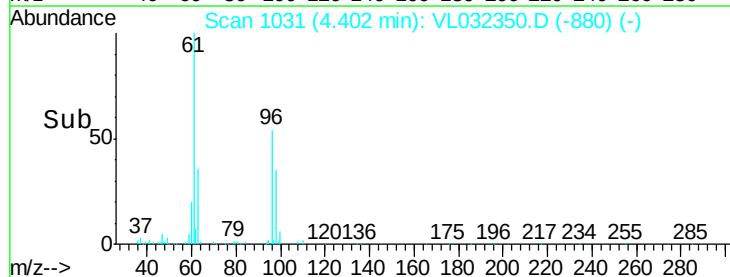
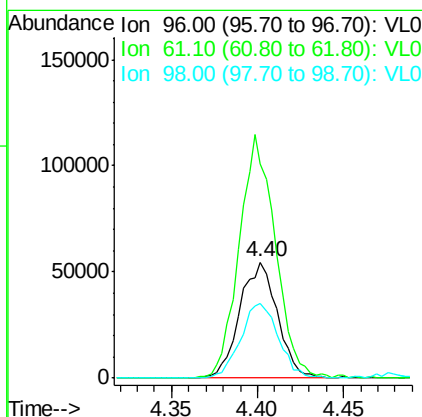
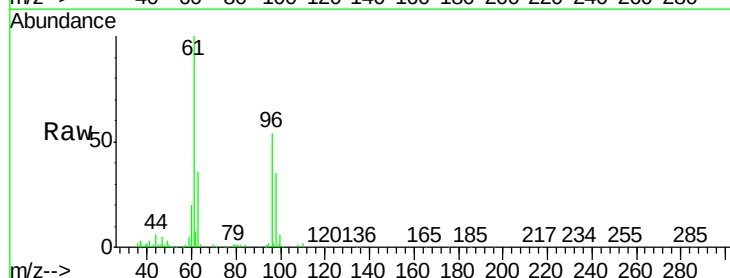
Manual Integrations
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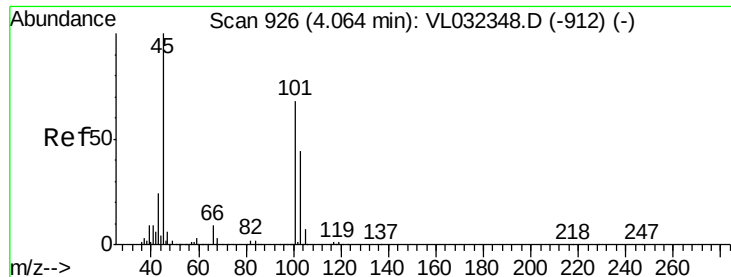
MMDadoda
 8/17/2018 2:06:24 PM



#18
 1,1-Dichloroethene
 Concen: 1.00 ppbv
 RT: 4.40 min Scan# 1031
 Delta R.T. -0.01 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Tgt Ion: 96 Resp: 82808
 Ion Ratio Lower Upper
 96 100
 61 184.7 159.0 238.4
 98 64.9 51.1 76.7





#19

Isopropyl Alcohol

Concen: 1.10 ppbv

RT: 4.08 min Scan# 931

Delta R.T. -0.00 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 157895

Ion Ratio Lower Upper

45 100

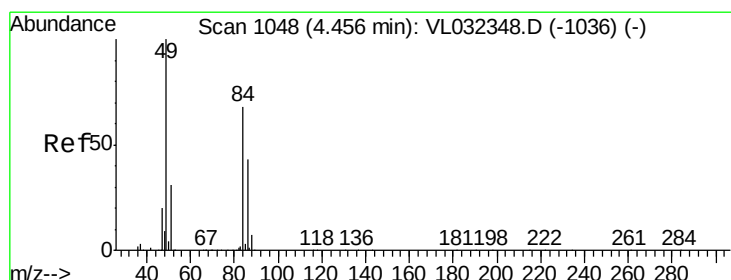
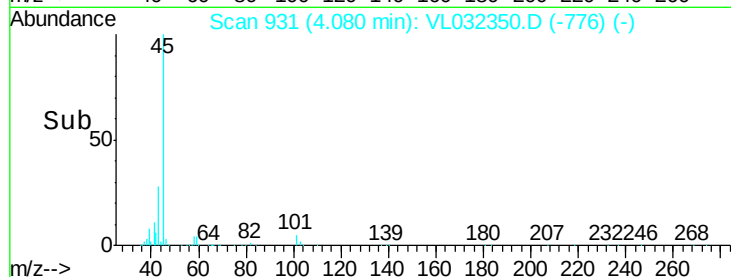
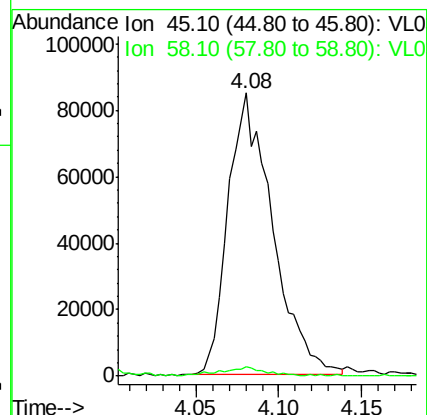
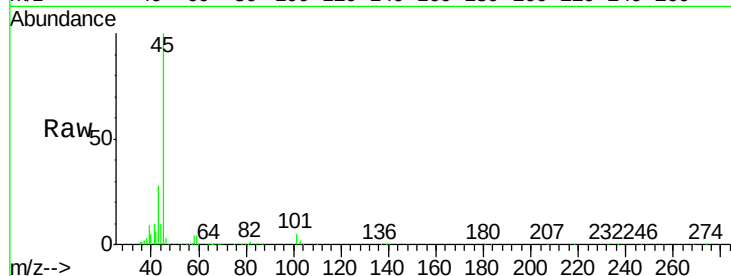
58 3.6 1.5 2.3#

Manual Integrations

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MMDadoda

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#20

Methylene Chloride

Concen: 1.08 ppbv

RT: 4.46 min Scan# 1048

Delta R.T. -0.01 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Tgt Ion: 84 Resp: 93083

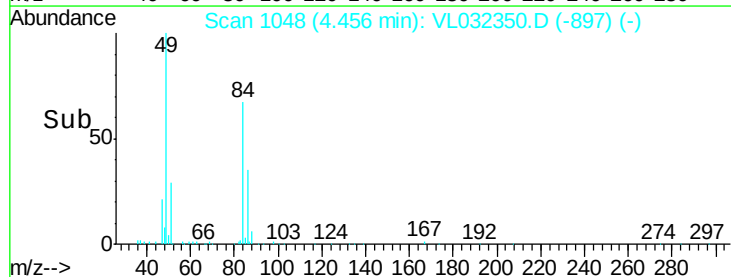
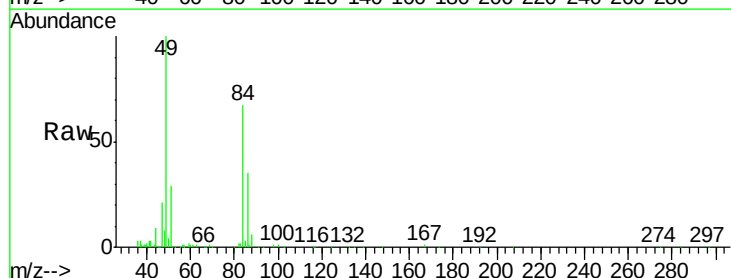
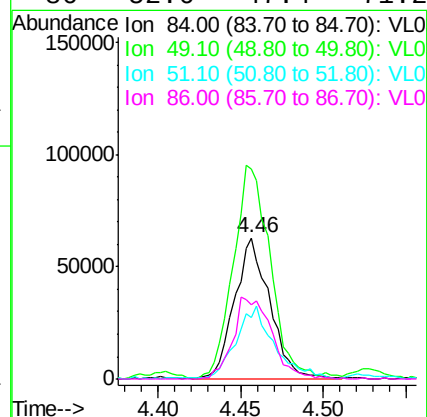
Ion Ratio Lower Upper

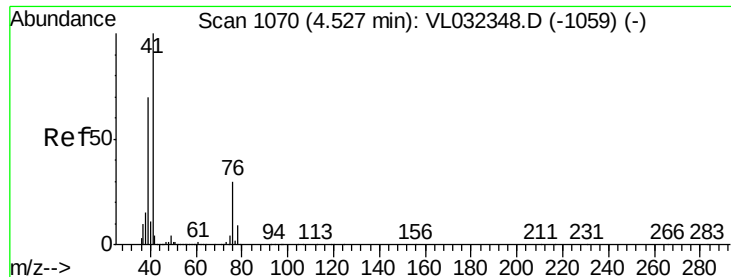
84 100

49 147.8 123.4 185.0

51 43.1 38.2 57.2

86 52.6 47.4 71.2





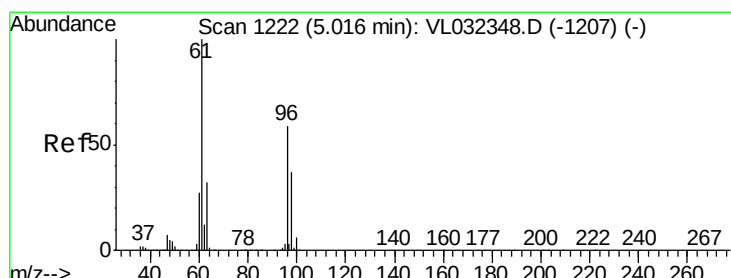
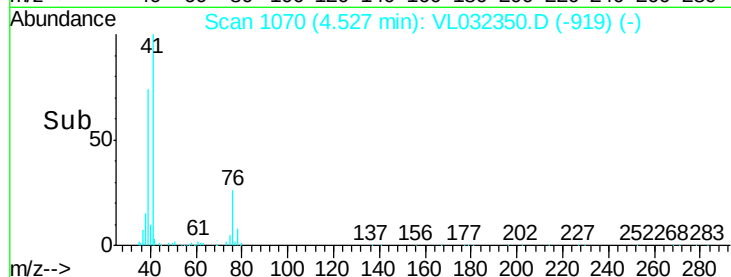
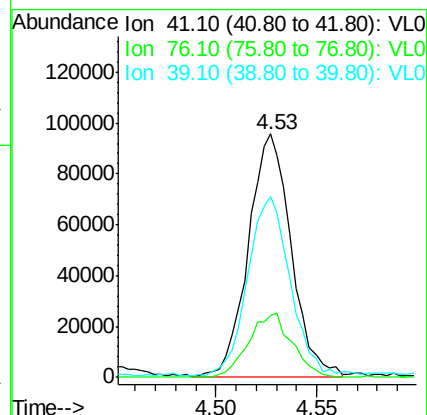
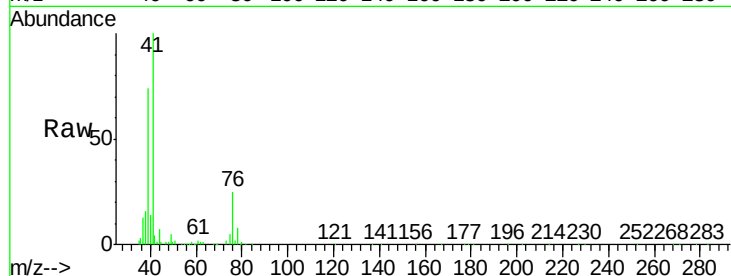
#21
 Allvl Chloride
 Concen: 0.96 ppbv
 RT: 4.53 min Scan# 1070
 Delta R.T. -0.01 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
41	100		
76	27.2	23.1	34.7
39	77.1	58.2	87.2

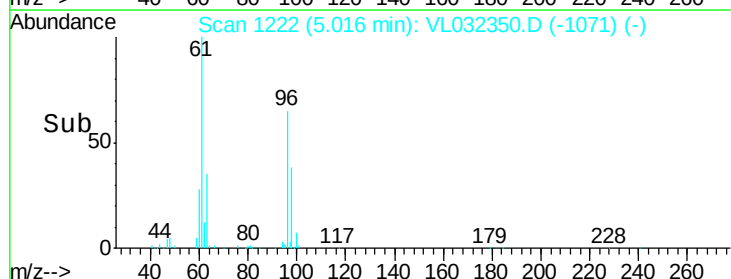
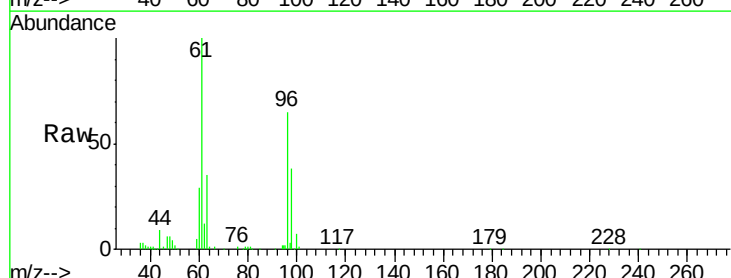
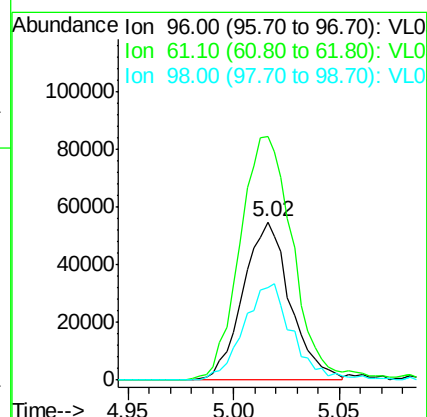
Manual Integrations
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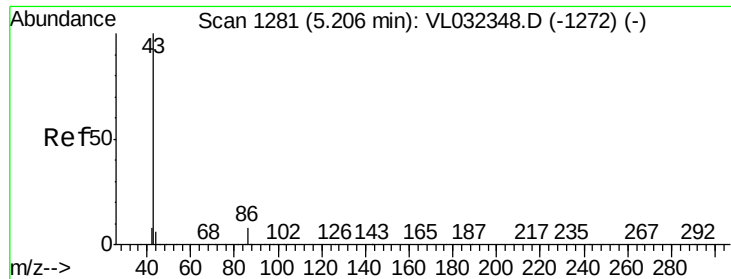
MMDadoda
 8/17/2018 2:06:24 PM



#22
 trans-1,2-Dichloroethene
 Concen: 1.06 ppbv
 RT: 5.02 min Scan# 1222
 Delta R.T. -0.01 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Tgt Ion	Ratio	Lower	Upper
96	100		
61	152.6	136.5	204.7
98	57.1	51.3	76.9





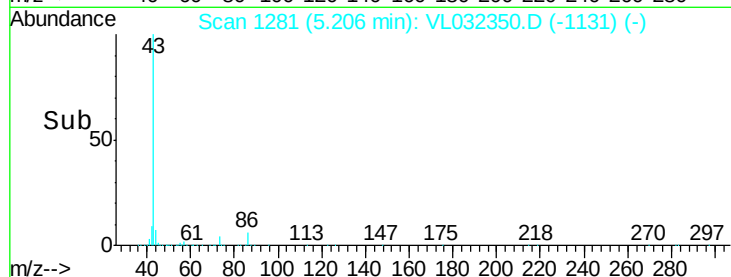
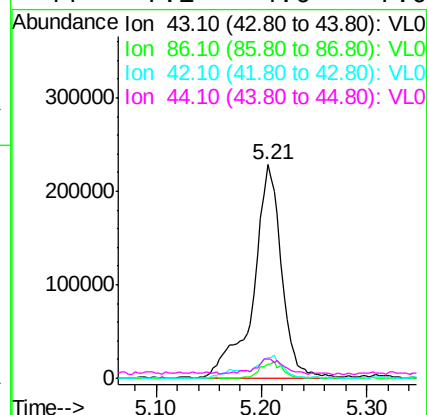
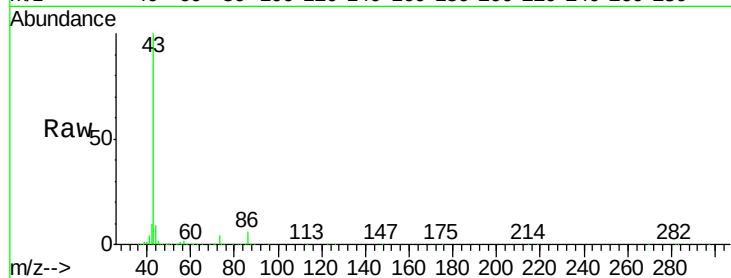
#23
 Vinyl Acetate
 Concen: 1.11 ppbv
 RT: 5.21 min Scan# 1281
 Delta R.T. -0.02 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
86	6.3	6.3	9.5
42	9.6	7.0	10.4
44	7.1	4.6	7.0#

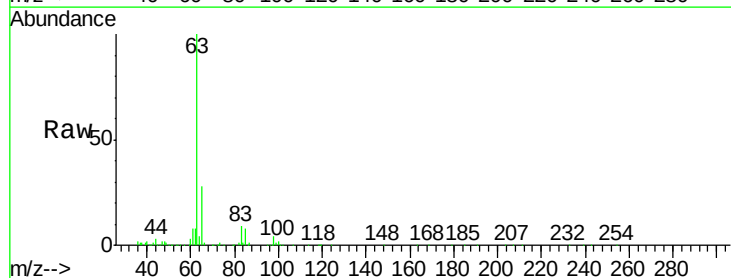
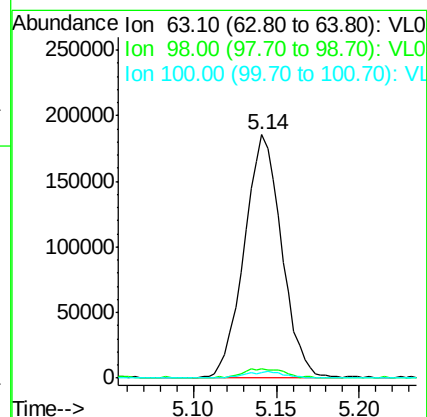
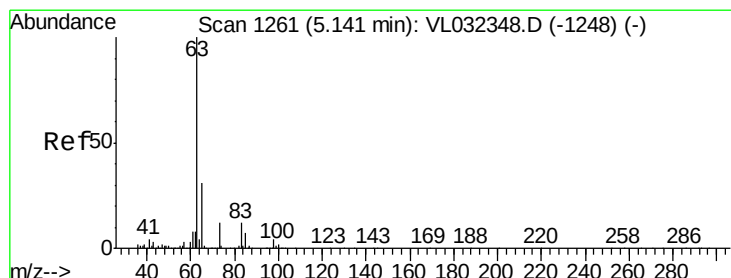
Manual Integrations
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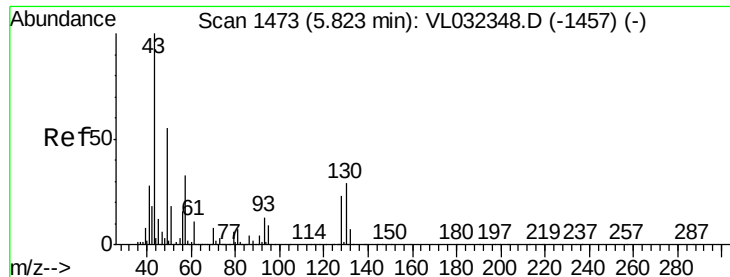
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 1.05 ppbv
 RT: 5.14 min Scan# 1261
 Delta R.T. -0.02 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Tgt Ion	Ratio	Lower	Upper
63	100		
98	3.9	2.1	6.5
100	2.4	1.3	3.8





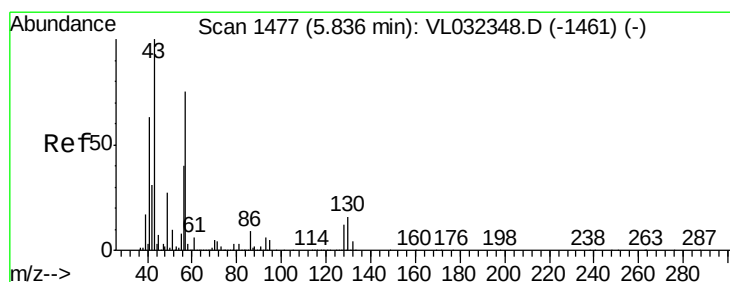
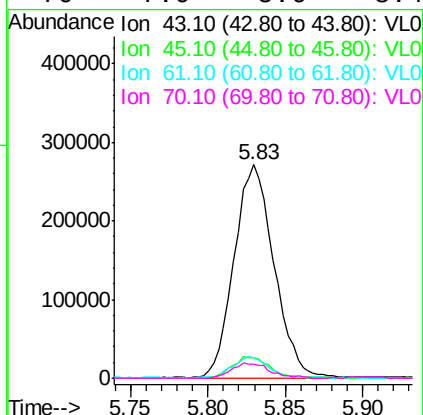
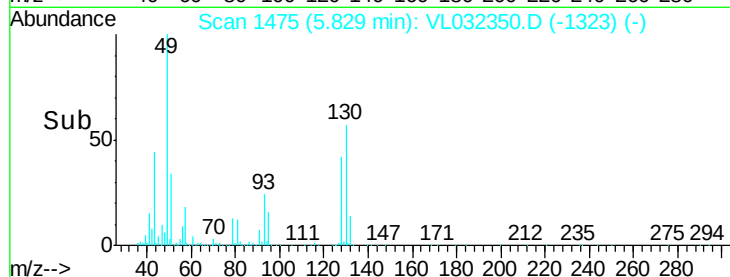
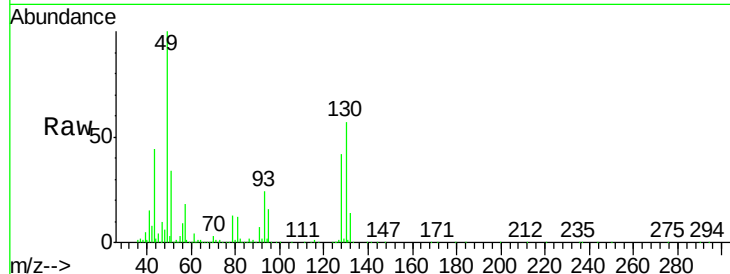
#25
Ethyl Acetate
Concen: 1.00 ppbv
RT: 5.83 min Scan# 1475
Delta R.T. -0.01 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	9.7	8.1	12.1		
61	9.9	7.4	11.0		
70	7.0	5.6	8.4		

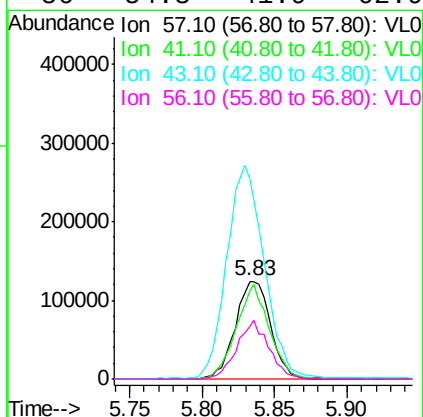
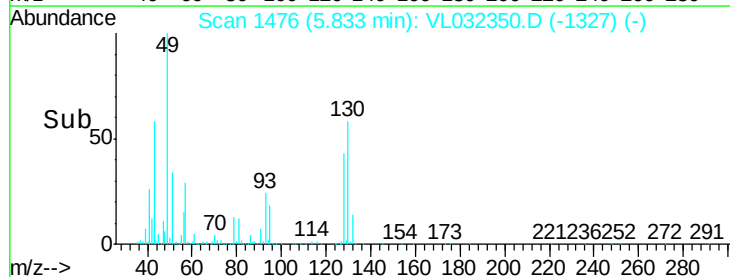
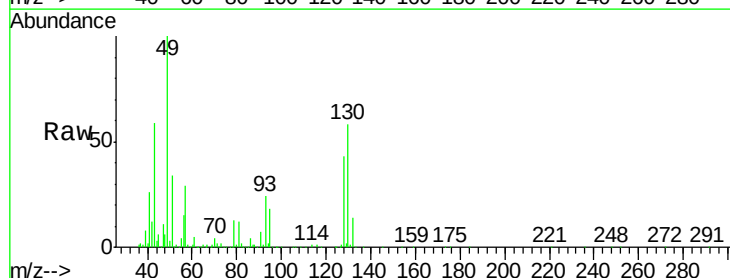
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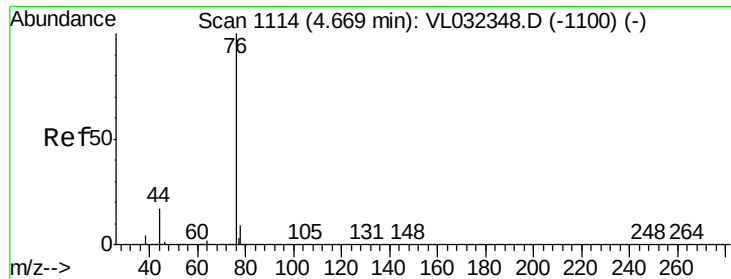
MMDadoda
8/17/2018 2:06:24 PM



#26
Hexane
Concen: 0.97 ppbv
RT: 5.83 min Scan# 1476
Delta R.T. -0.02 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	91.2	68.1	102.1		
43	233.7	177.4	266.2		
56	54.3	41.9	62.9		





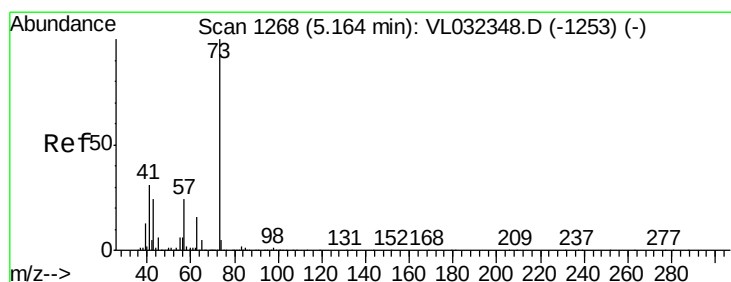
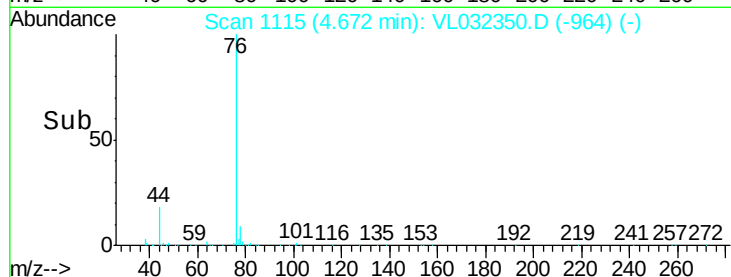
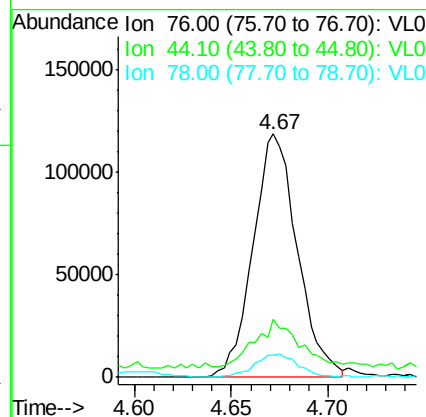
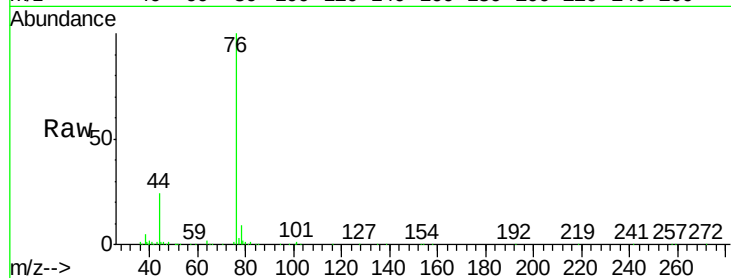
#27
Carbon Disulfide
Concen: 0.95 ppbv
RT: 4.67 min Scan# 1115
Delta R.T. -0.01 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
76	100		
44	23.0	14.0	21.0#
78	9.7	7.5	11.3

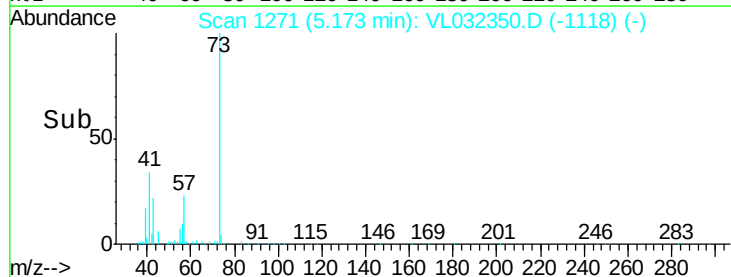
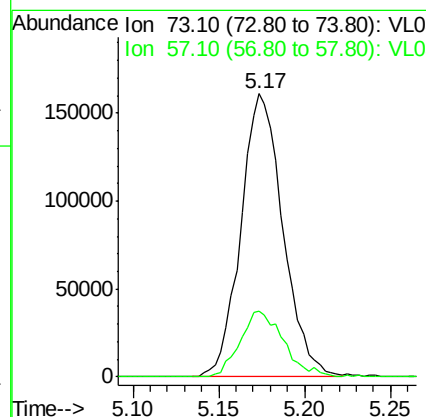
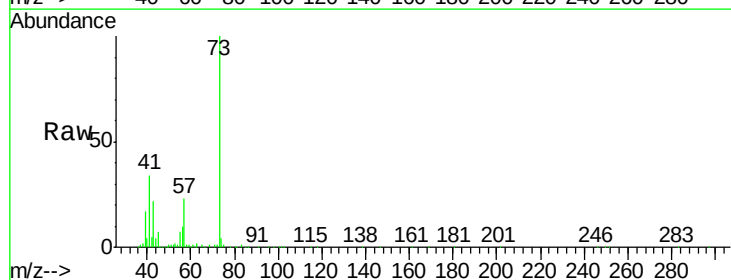
Manual Integrations
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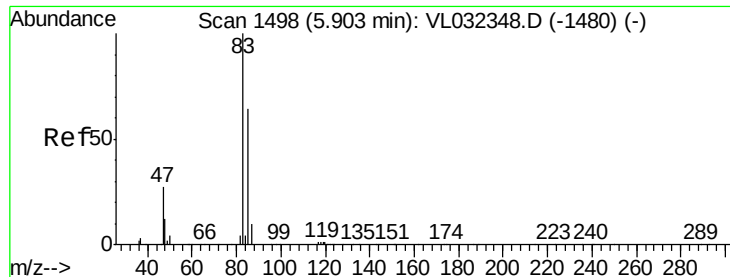
MMDadoda
8/17/2018 2:06:24 PM



#28
Methyl tert-Butyl Ether
Concen: 0.93 ppbv
RT: 5.17 min Scan# 1271
Delta R.T. -0.01 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Tgt Ion	Ratio	Lower	Upper
73	100		
57	24.3	19.4	29.0





#29

Chloroform

Concen: 1.04 ppbv

RT: 5.90 min Scan# 1497

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 83 Resp: 327936

Ion Ratio Lower Upper

83 100

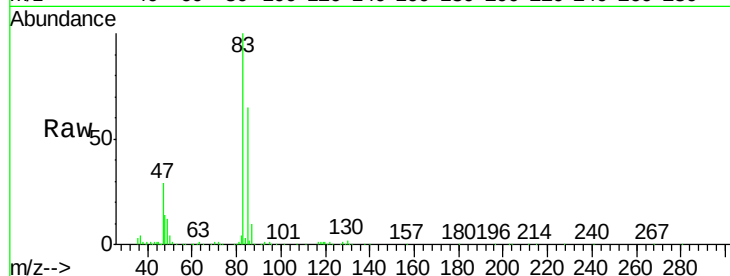
85 64.5 52.9 79.3

Manual Integrations

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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

5.90

200000

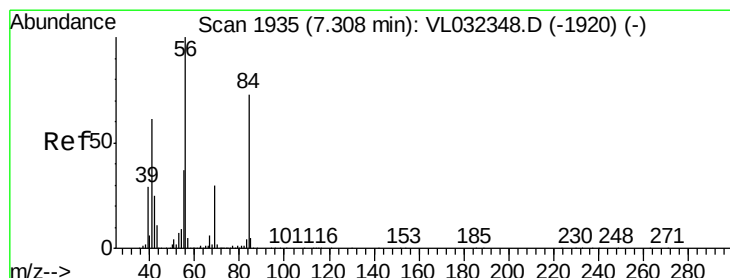
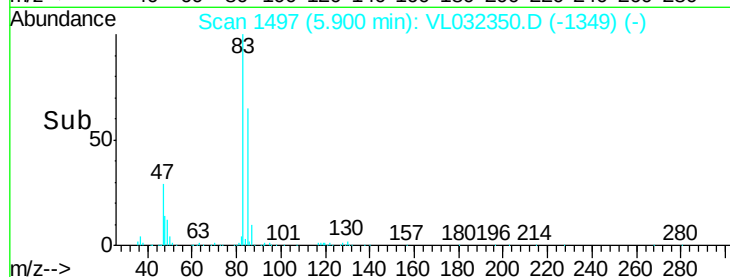
150000

100000

50000

0

Time-->



#30

Cyclohexane

Concen: 0.88 ppbv

RT: 7.31 min Scan# 1935

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

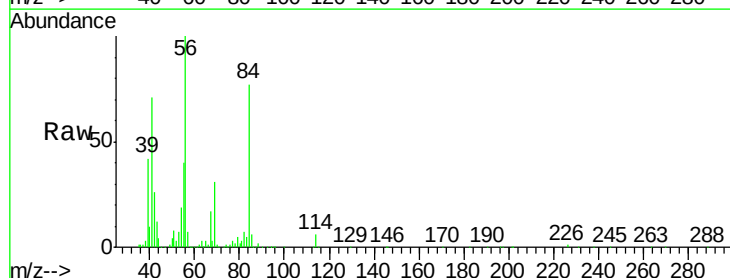
Tgt Ion: 84 Resp: 149270

Ion Ratio Lower Upper

84 100

56 212.5 116.8 175.2#

41 94.8 70.0 105.0



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

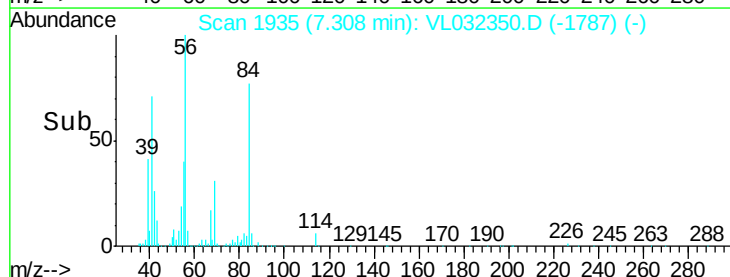
7.31

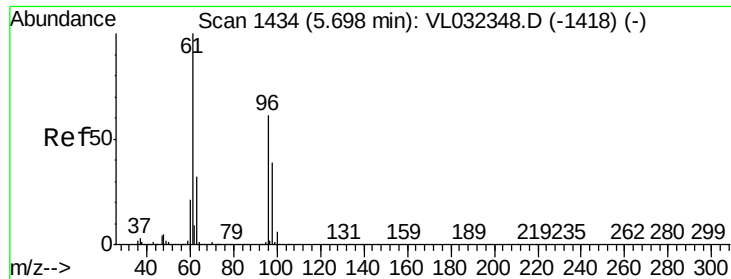
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50000

0

Time-->





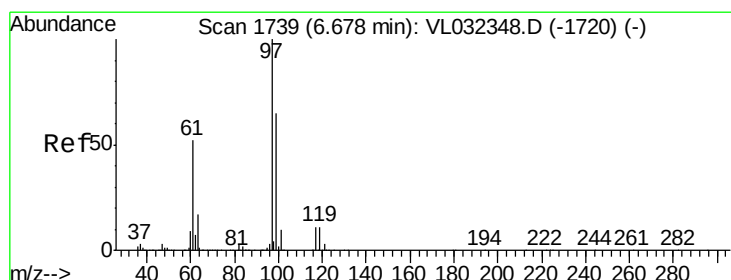
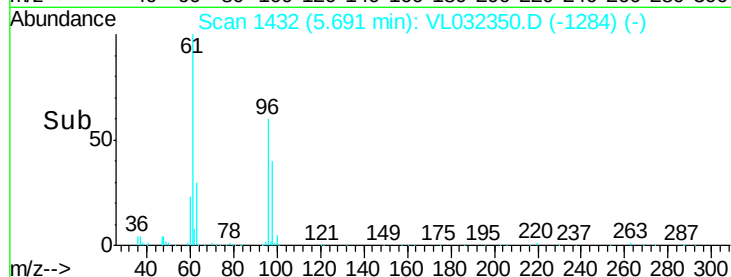
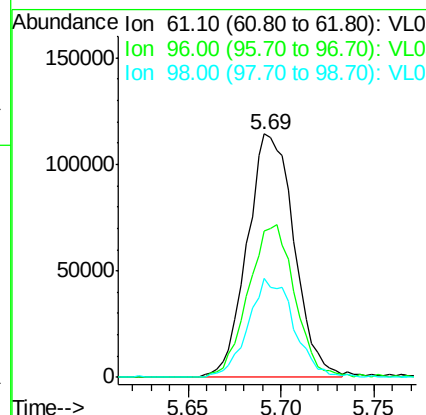
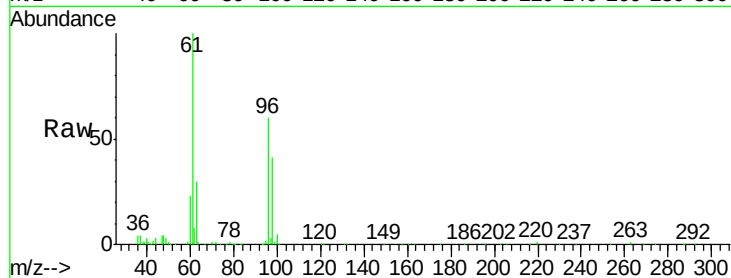
#31
 cis-1,2-Dichloroethene
 Concen: 1.00 ppbv
 RT: 5.69 min Scan# 1432
 Delta R.T. -0.02 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
61	100		
96	60.1	49.8	74.6
98	40.9	31.8	47.6

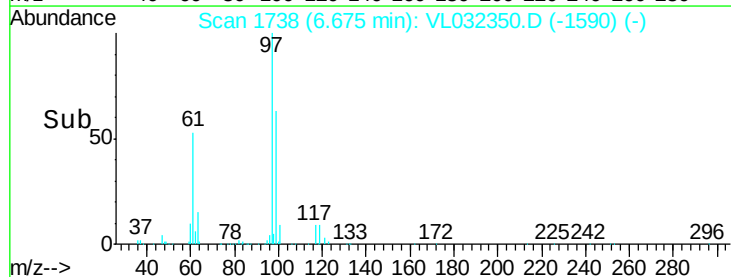
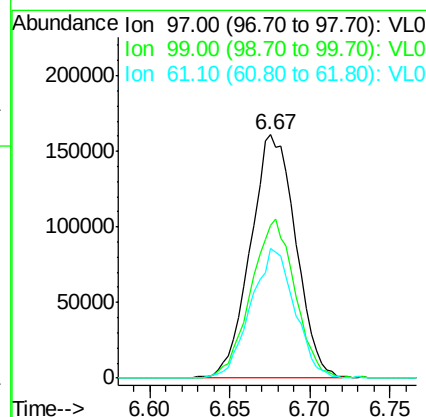
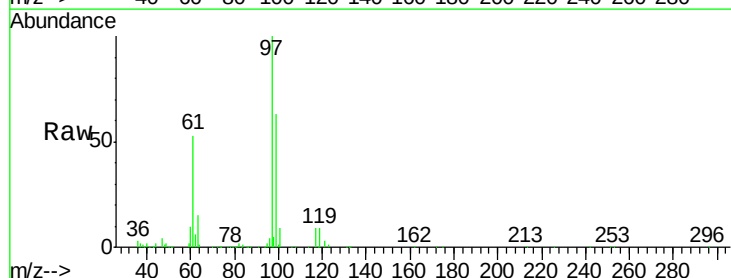
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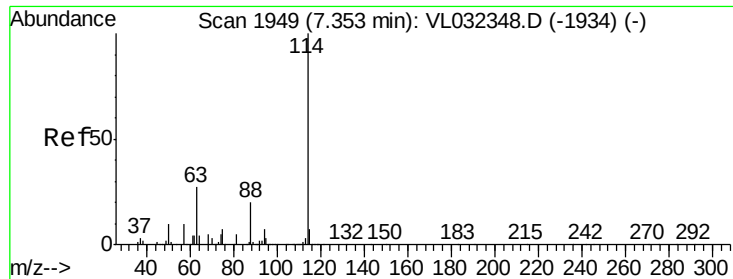
MMDadoda
 8/17/2018 2:06:24 PM



#32
 1,1,1-Trichloroethane
 Concen: 1.12 ppbv
 RT: 6.67 min Scan# 1738
 Delta R.T. -0.02 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.9	76.3
61	51.7	41.8	62.6





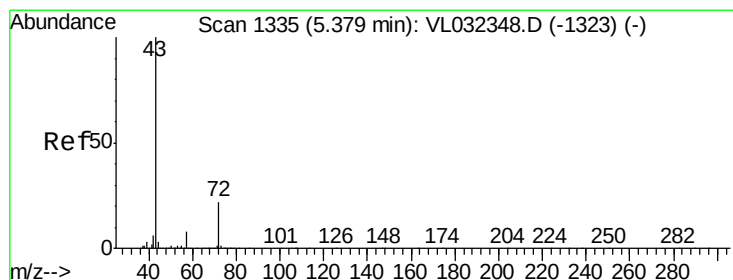
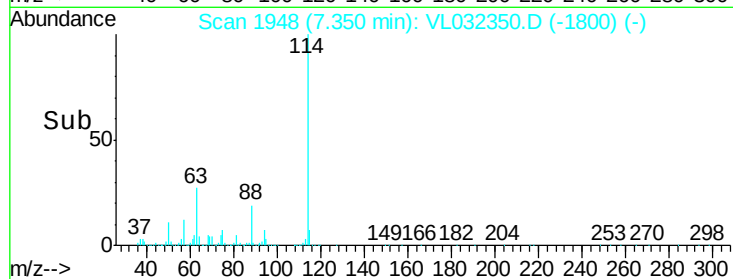
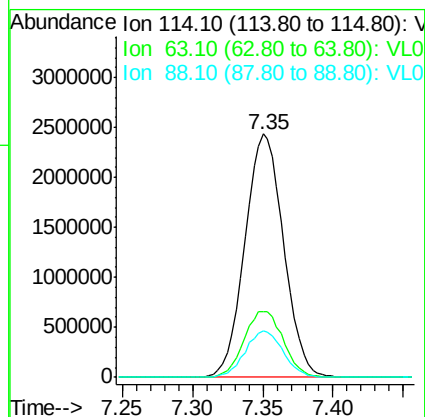
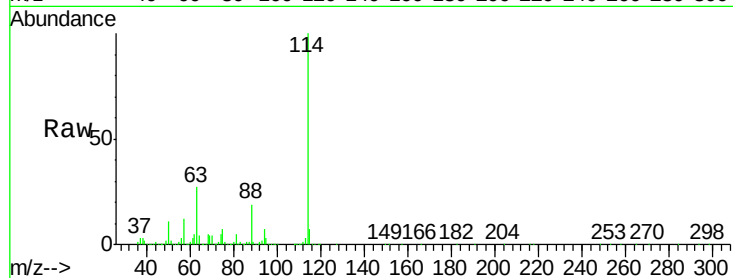
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.35 min Scan# 1948
 Delta R.T. -0.02 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion:114 Resp: 4674086
 Ion Ratio Lower Upper
 114 100
 63 27.9 22.4 33.6
 88 18.8 15.3 22.9

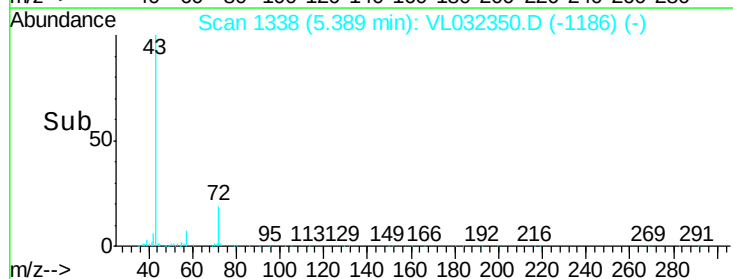
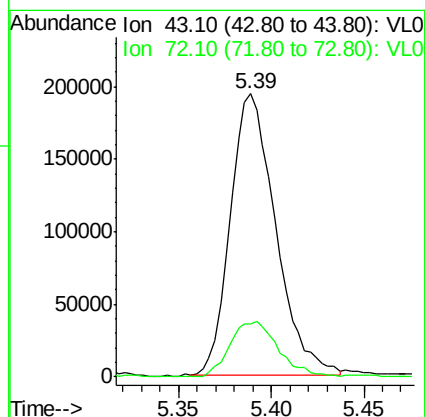
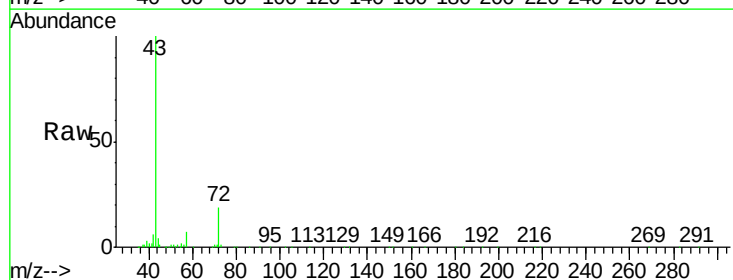
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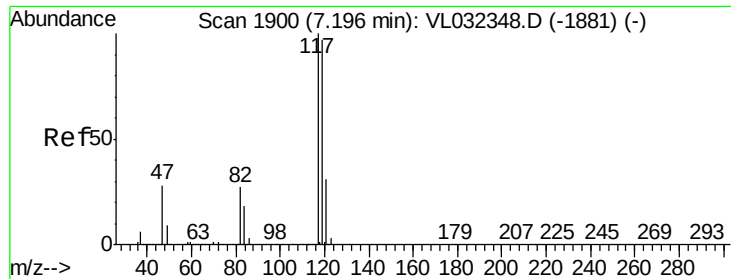
MMDadoda
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#34
 2-Butanone
 Concen: 1.09 ppbv
 RT: 5.39 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Tgt Ion: 43 Resp: 329506
 Ion Ratio Lower Upper
 43 100
 72 21.5 17.4 26.2





#35

Carbon Tetrachloride

Concen: 1.11 ppbv

RT: 7.19 min Scan# 1899

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

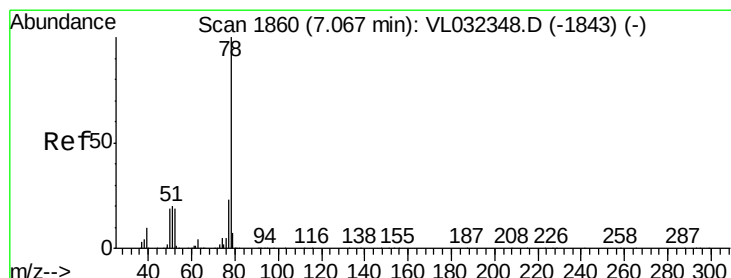
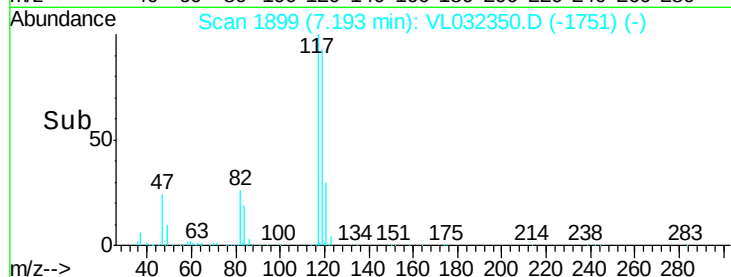
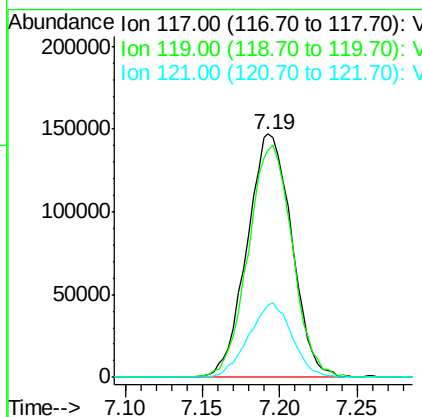
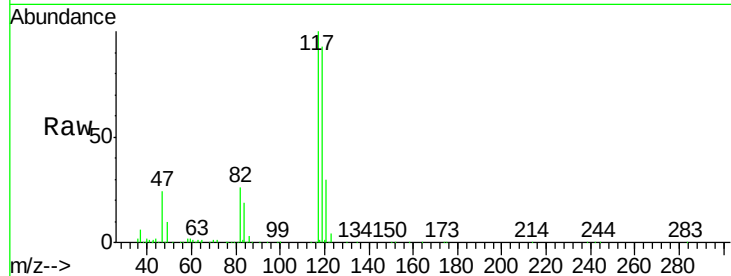
ClientSampleId :

VSTDIC001

Tot Ion:	117	Resp:	295223
Ion Ratio	Lower	Upper	
117	100		
119	93.5	76.1	114.1
121	29.6	24.4	36.6

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#36

Benzene

Concen: 0.99 ppbv

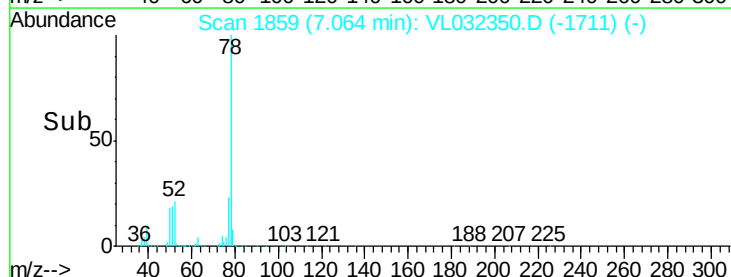
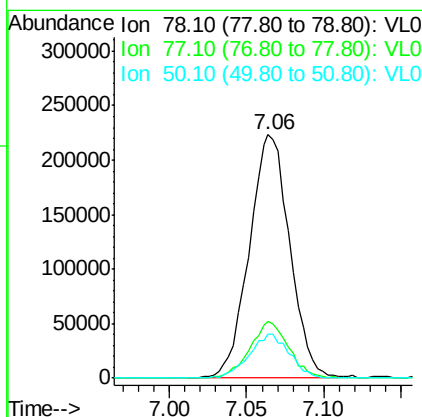
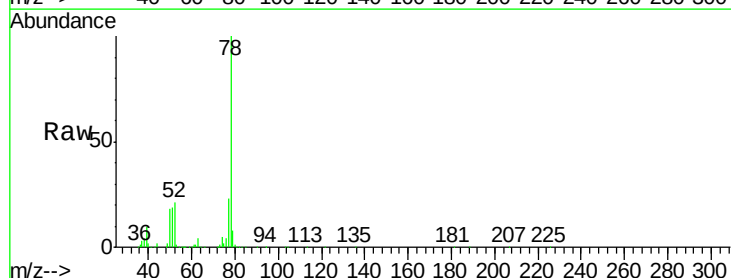
RT: 7.06 min Scan# 1859

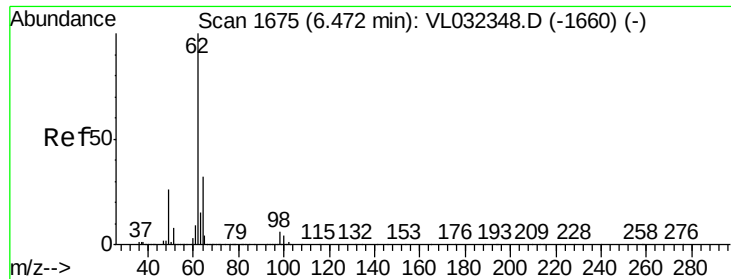
Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Tgt Ion:	78	Resp:	406774
Ion Ratio	Lower	Upper	
78	100		
77	23.3	18.4	27.6
50	17.9	15.3	22.9





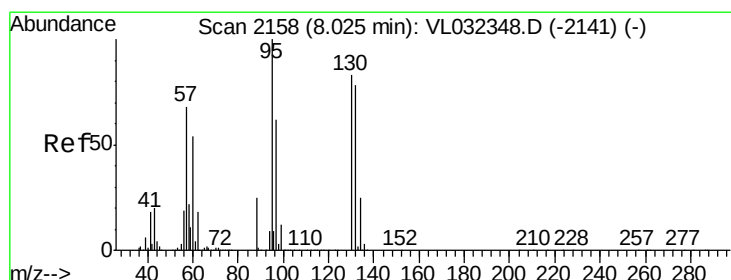
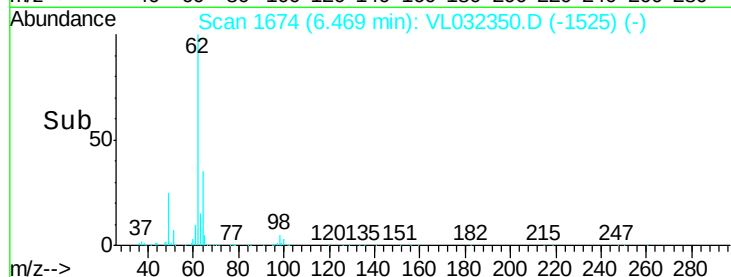
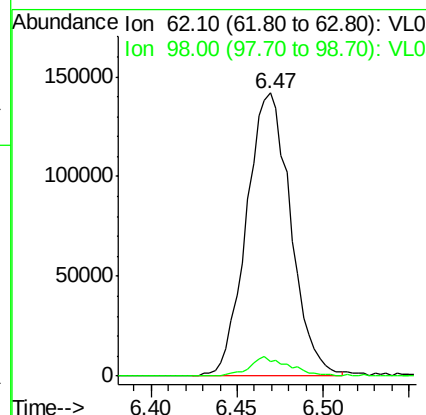
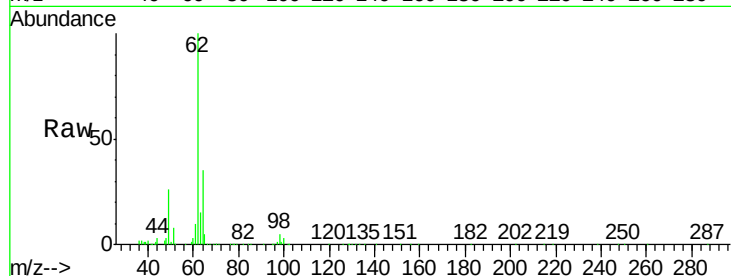
#37
 1,2-Dichloroethane
 Concen: 1.06 ppbv
 RT: 6.47 min Scan# 1674
 Delta R.T. -0.02 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
62	100	252769		
98	6.4		5.1	7.7

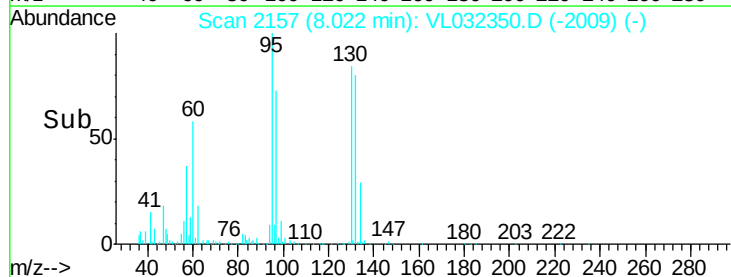
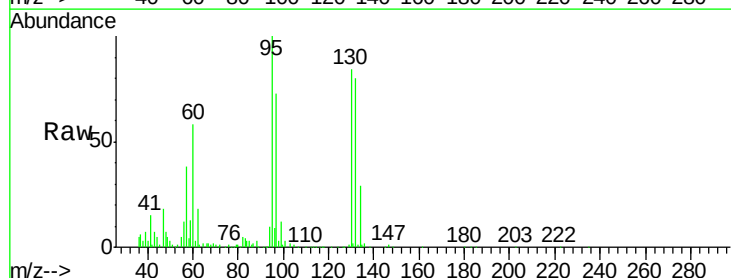
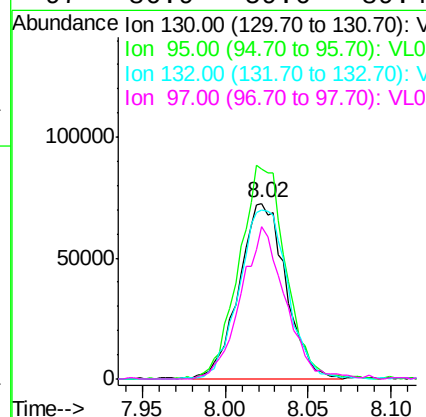
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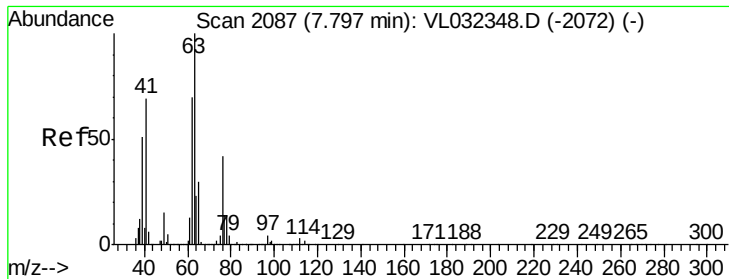
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#38
 Trichloroethene
 Concen: 0.89 ppbv
 RT: 8.02 min Scan# 2157
 Delta R.T. -0.02 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	142488		
95	119.6		92.9	139.3
132	95.6		73.0	109.4
97	86.9		59.6	89.4





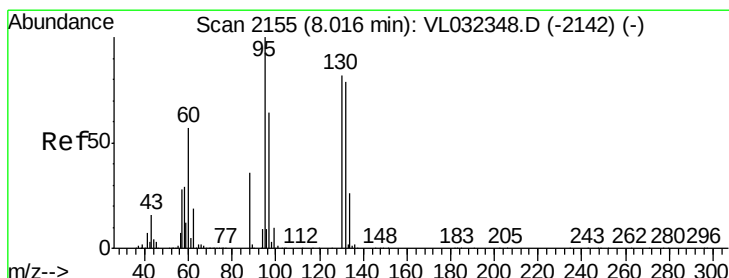
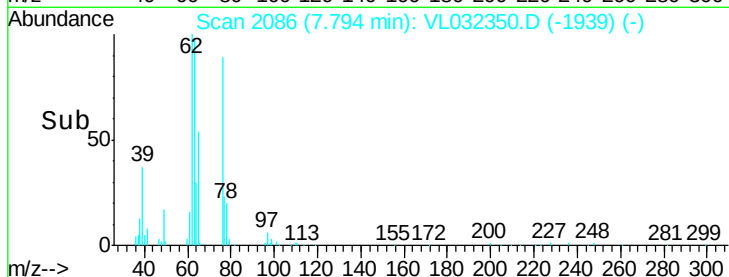
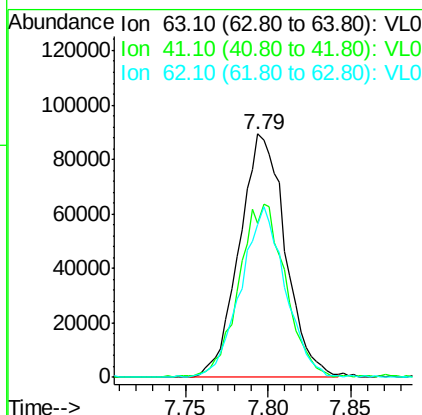
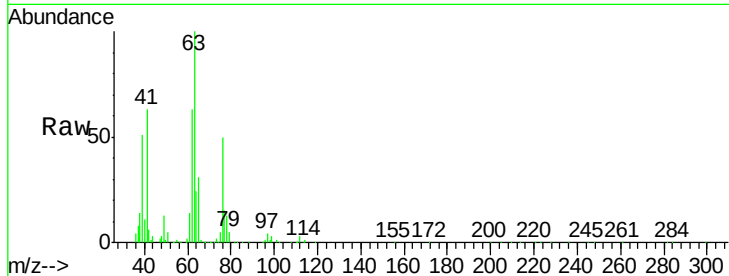
#39
 1,2-Dichloropropane
 Concen: 0.83 ppbv
 RT: 7.79 min Scan# 2086
 Delta R.T. -0.03 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
63	100		
41	62.8	52.5	78.7
62	62.9	54.6	81.8

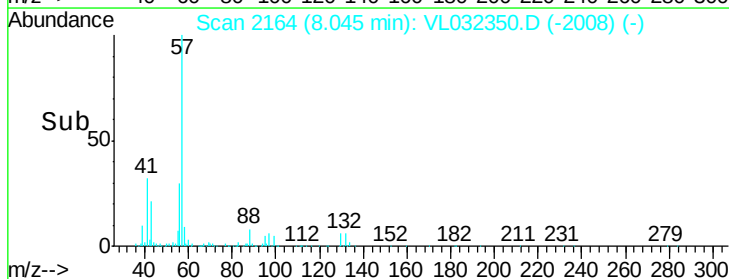
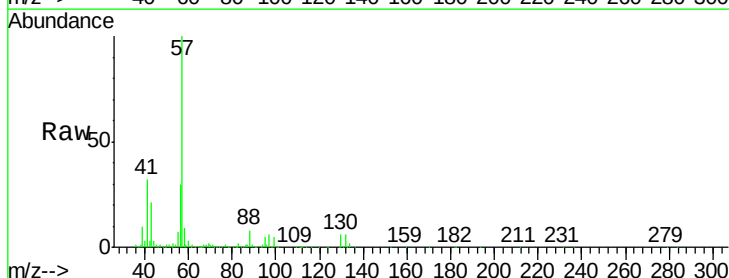
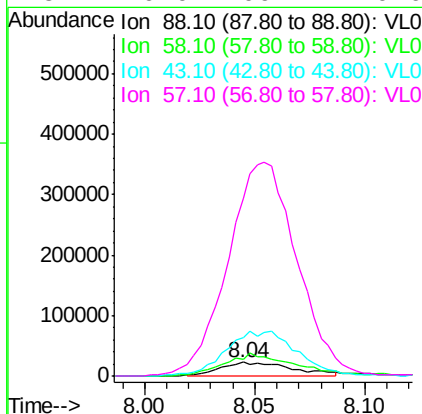
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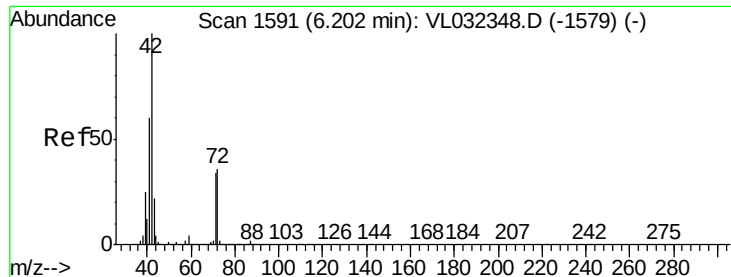
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#40
 1,4-Dioxane
 Concen: 0.85 ppbv m
 RT: 8.04 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	120.5	180.7#
43	0.0	246.2	369.2#
57	0.0	1097.4	1646.2#





#41

Tetrahydrofuran

Concen: 0.96 ppbv

RT: 6.22 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

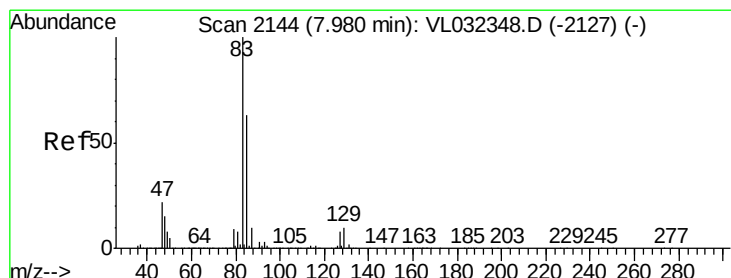
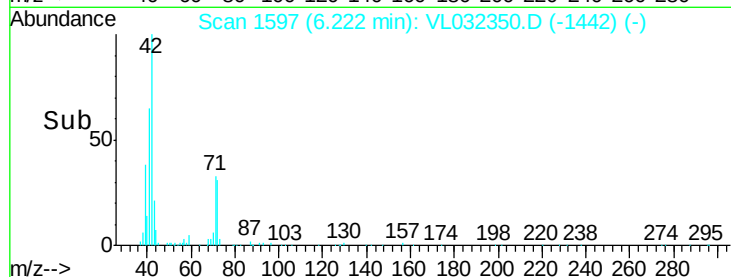
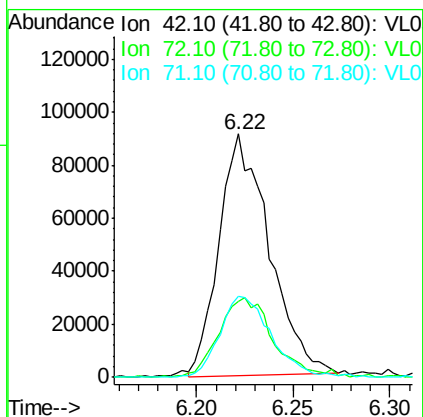
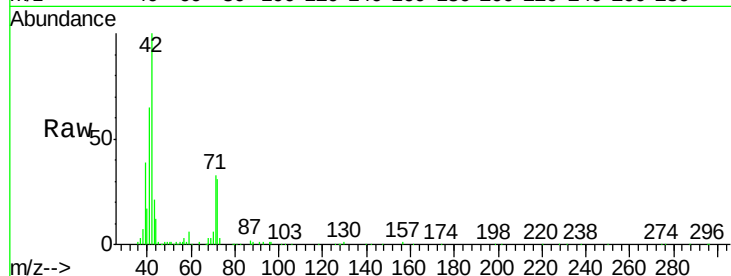
ClientSampleId :

VSTDIC001

Tot Ion:	42	Resp:	164928
Ion	Ratio	Lower	Upper
42	100		
72	36.6	28.6	42.8
71	34.8	27.8	41.6

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#42

Bromodichloromethane

Concen: 0.85 ppbv

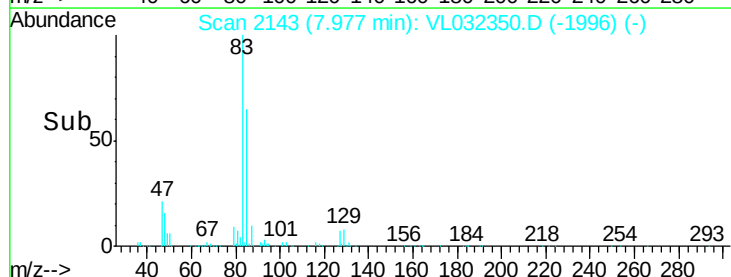
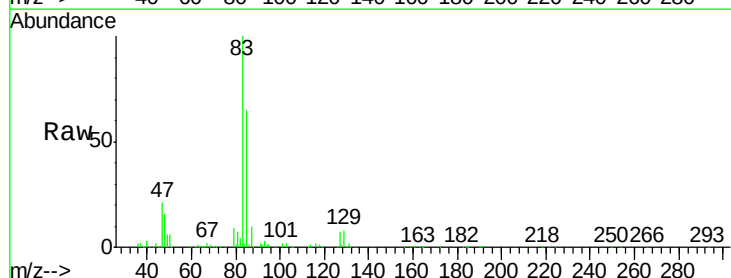
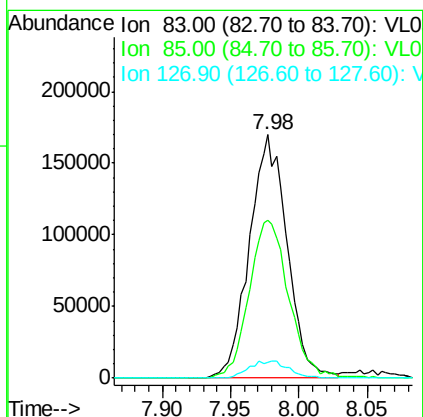
RT: 7.98 min Scan# 2143

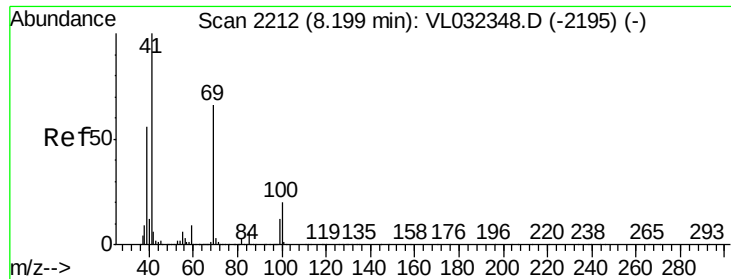
Delta R.T. -0.03 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Tgt Ion:	83	Resp:	326416
Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.7	76.1
127	6.7	6.0	9.0





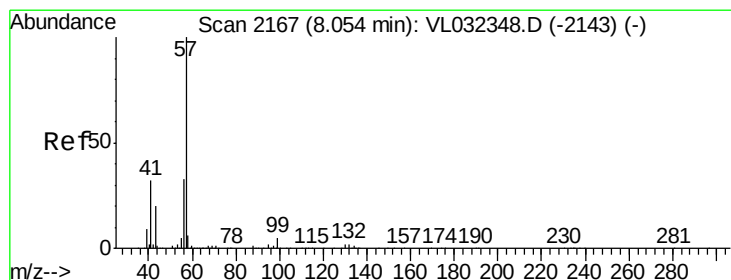
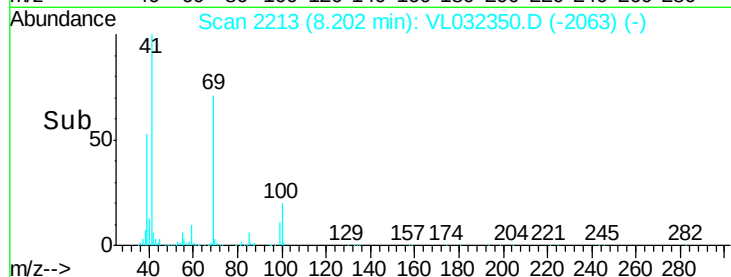
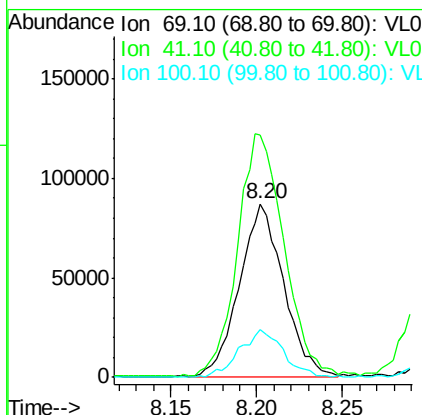
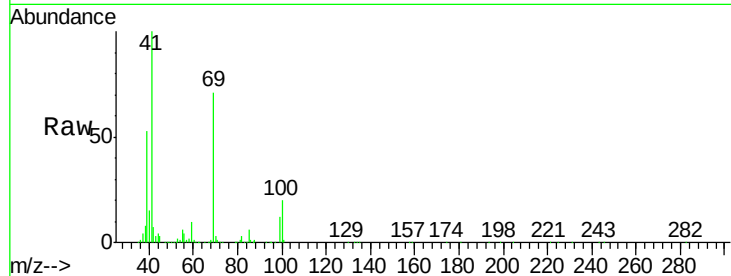
#43
Methyl Methacrylate
Concen: 0.78 ppbv
RT: 8.20 min Scan# 2213
Delta R.T. -0.02 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	149.8	120.6	180.8	
100	28.1	23.2	34.8	

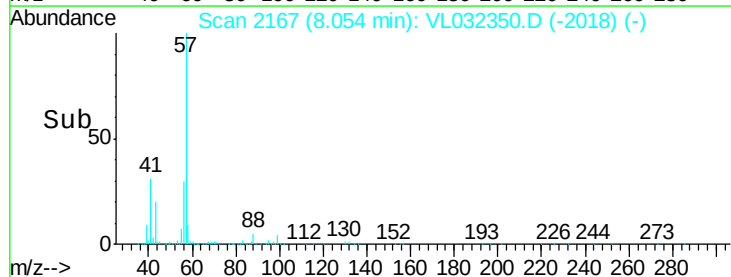
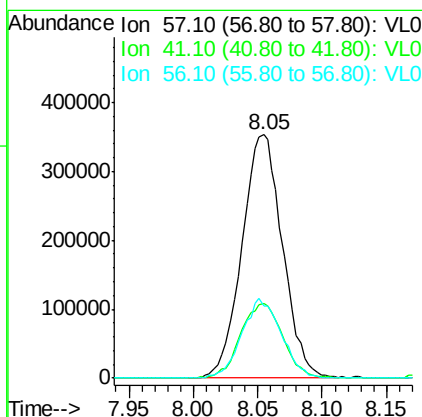
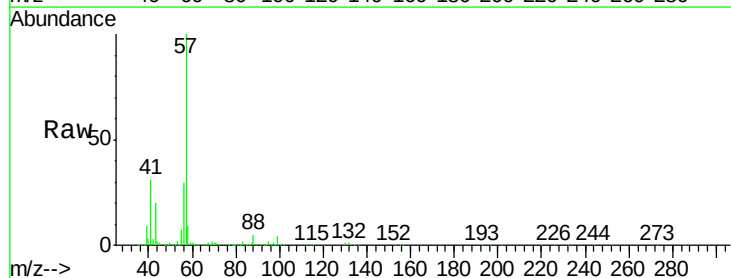
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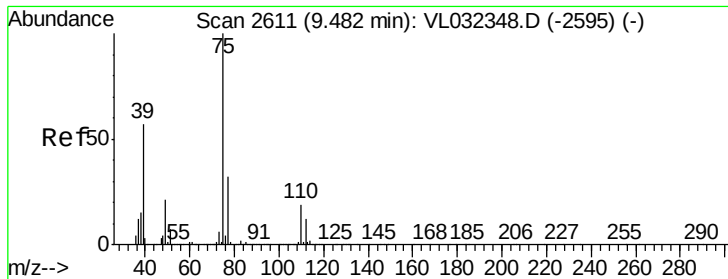
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 0.86 ppbv
RT: 8.05 min Scan# 2167
Delta R.T. -0.02 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.3	24.3	36.5	
56	32.1	25.4	38.2	





#45

t-1,3-Dichloropropene

Concen: 0.81 ppbv

RT: 9.48 min Scan# 2610

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 75 Resp: 185532

Ion Ratio Lower Upper

75 100

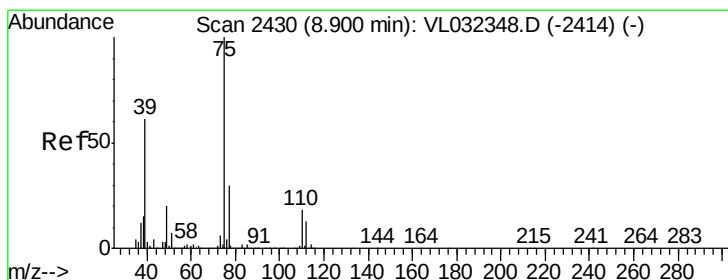
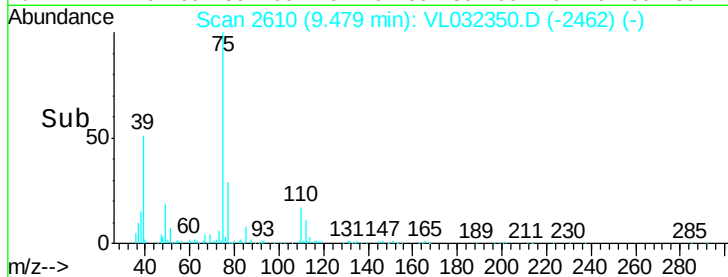
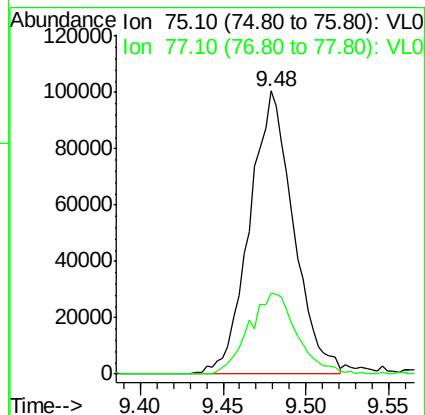
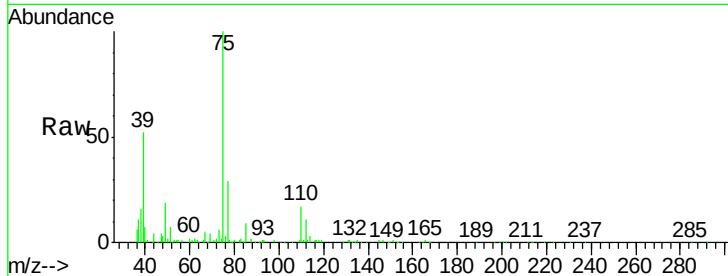
77 28.7 26.2 39.4

Manual Integrations

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#46

cis-1,3-Dichloropropene

Concen: 0.82 ppbv

RT: 8.90 min Scan# 2431

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

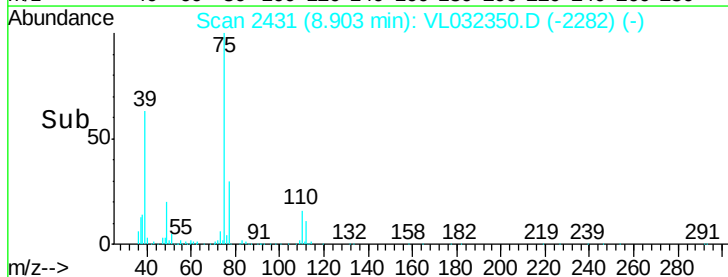
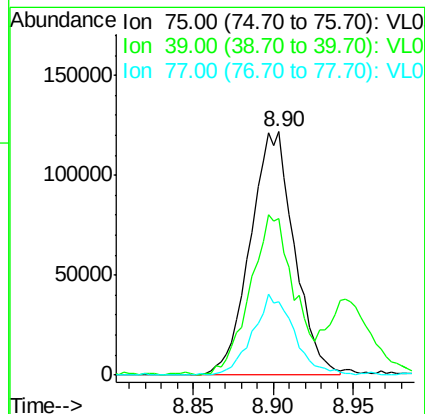
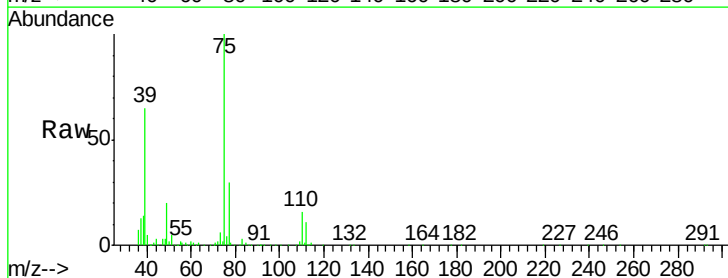
Tgt Ion: 75 Resp: 230680

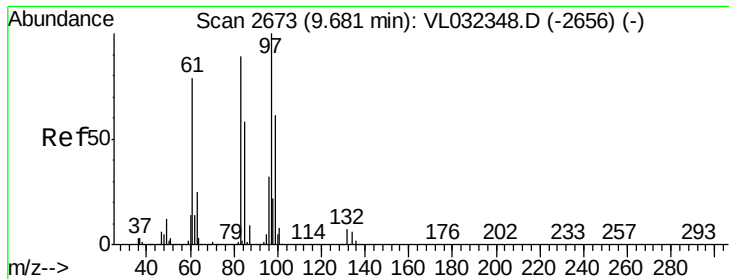
Ion Ratio Lower Upper

75 100

39 64.0 50.9 76.3

77 29.9 25.7 38.5





#47

1,1,2-Trichloroethane

Concen: 0.99 ppbv

RT: 9.68 min Scan# 2672

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

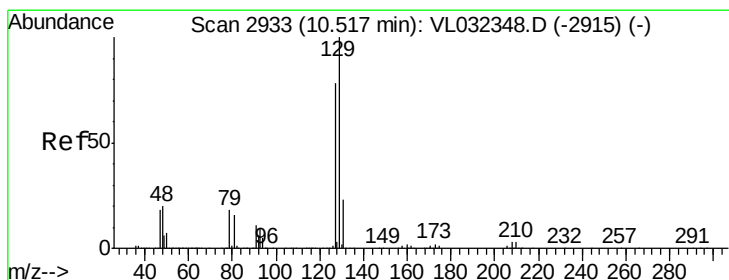
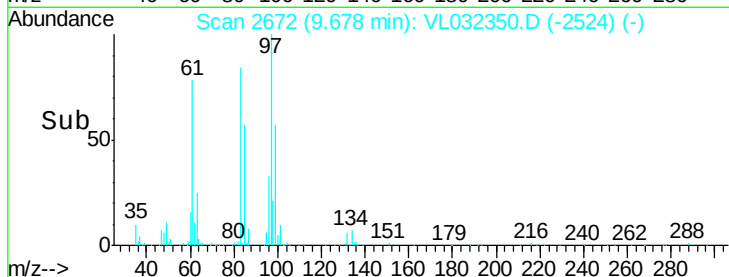
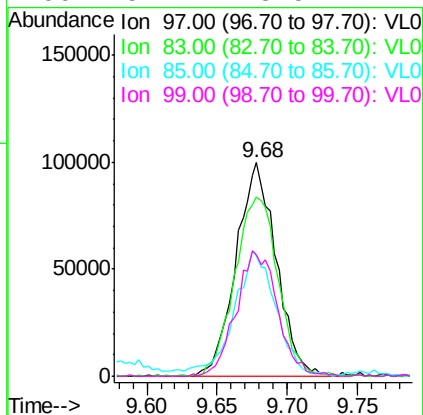
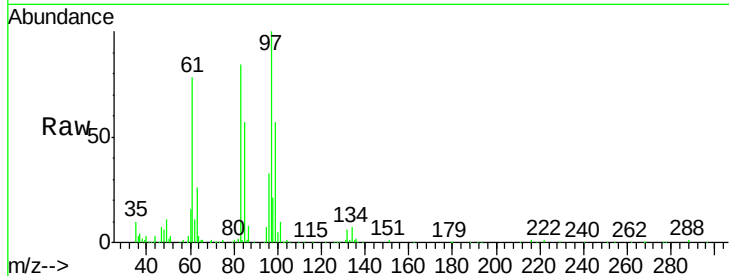
ClientSampleId :

VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		198623		
83	83.9	73.0	109.6		
85	55.9	48.1	72.1		
99	57.1	48.5	72.7		

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#48

Dibromochloromethane

Concen: 0.82 ppbv

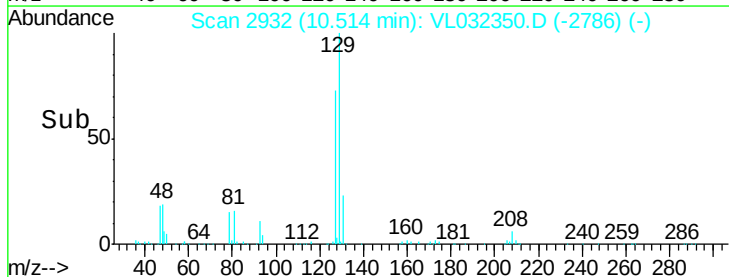
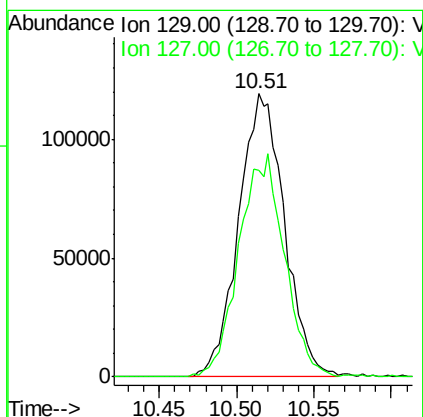
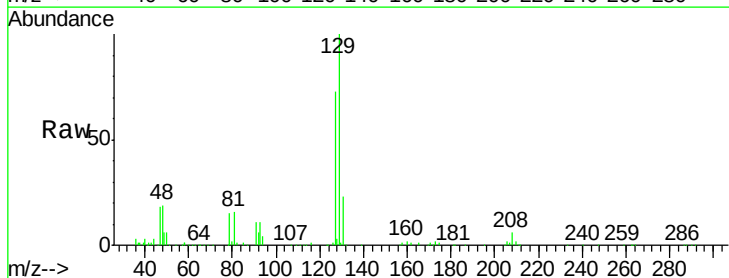
RT: 10.51 min Scan# 2932

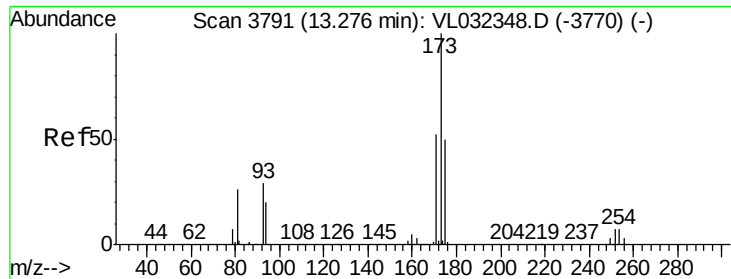
Delta R.T. -0.03 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		242884		
127	79.0	39.5	118.3		





#49

Bromoform

Concen: 0.87 ppbv m

RT: 13.27 min Scan# 3788

Delta R.T. -0.03 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

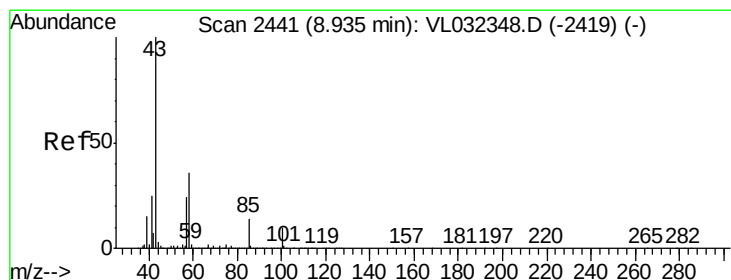
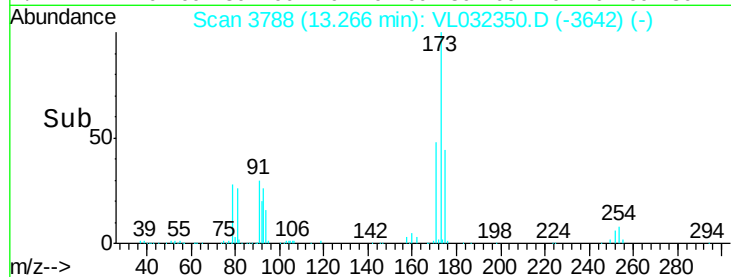
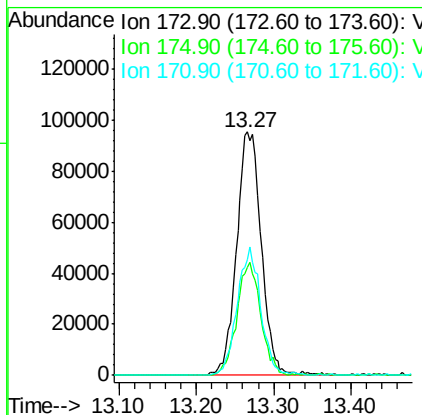
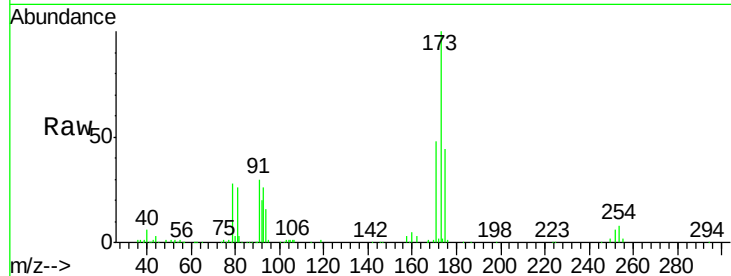
ClientSampleId :

VSTDIC001

Tot Ion:	173	Resp:	212590
Ion Ratio	Lower	Upper	
173	100		
175	0.0	38.9	58.3#
171	0.0	42.2	63.2#

Manual Integrations
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#50

4-Methyl-2-Pentanone

Concen: 0.91 ppbv

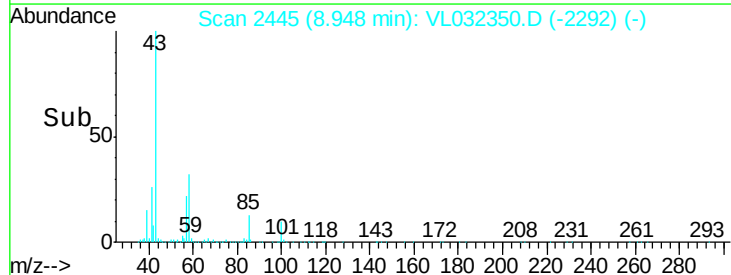
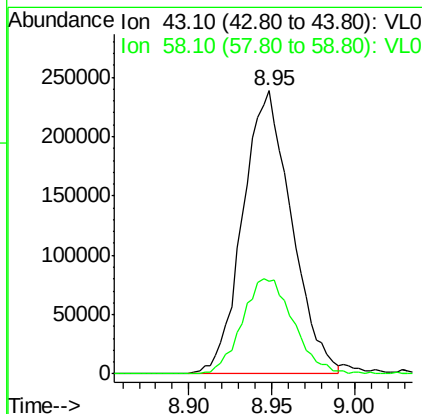
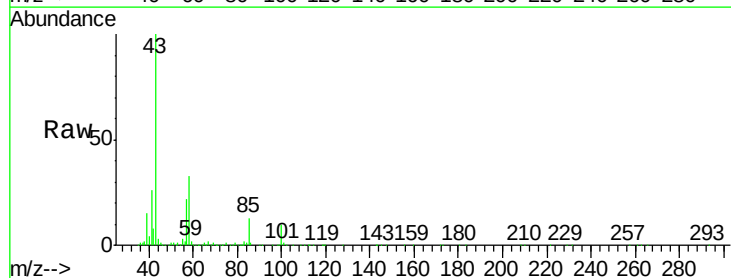
RT: 8.95 min Scan# 2445

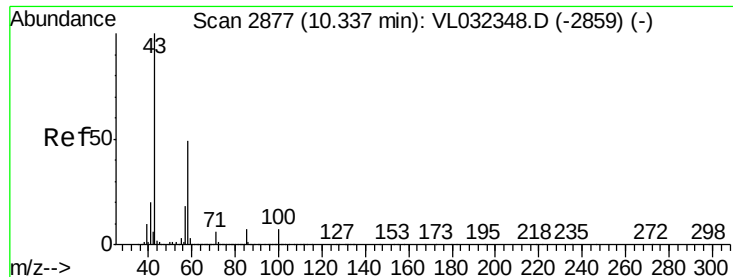
Delta R.T. -0.01 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Tgt Ion:	43	Resp:	485857
Ion Ratio	Lower	Upper	
43	100		
58	35.9	28.9	43.3





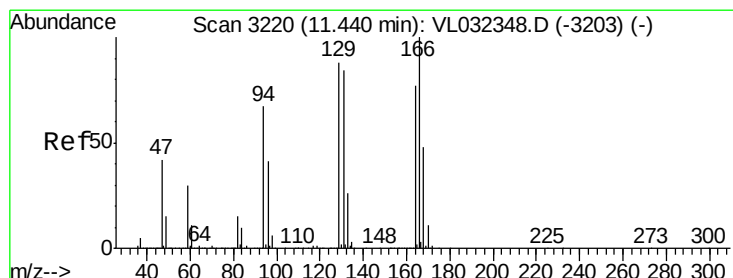
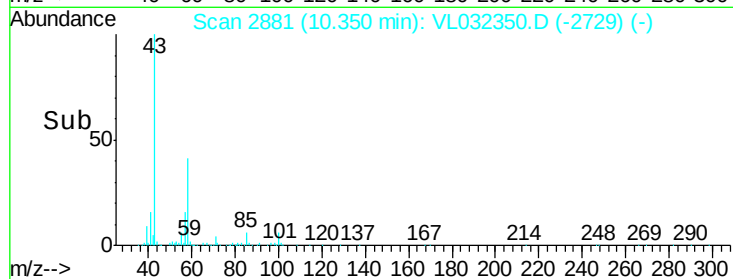
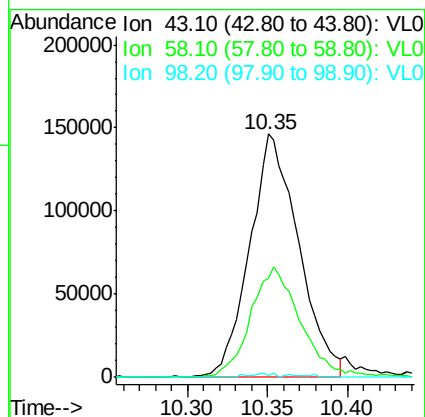
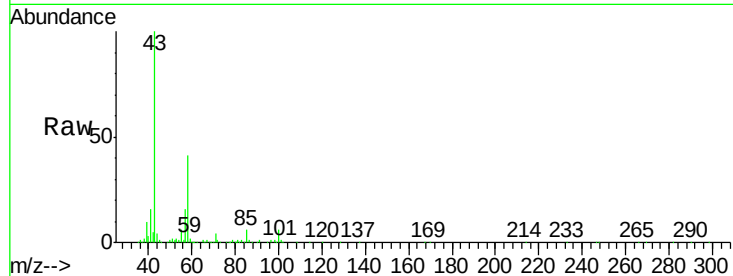
#51
2-Hexanone
Concen: 0.75 ppbv
RT: 10.35 min Scan# 2881
Delta R.T. -0.01 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
58	47.1	39.1	58.7
98	1.4	0.3	0.5#

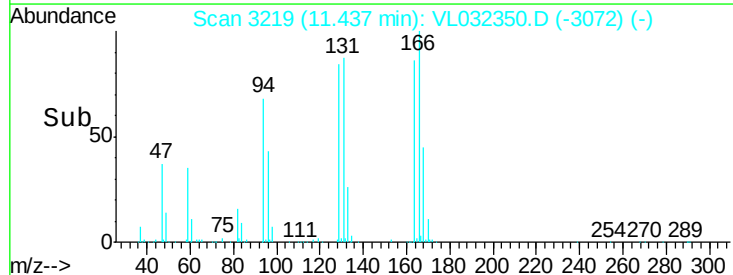
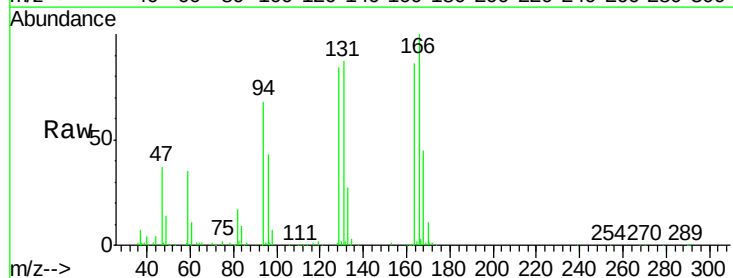
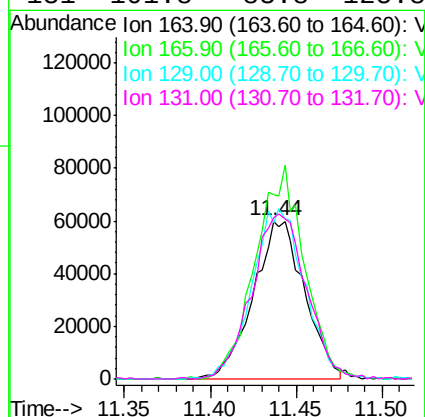
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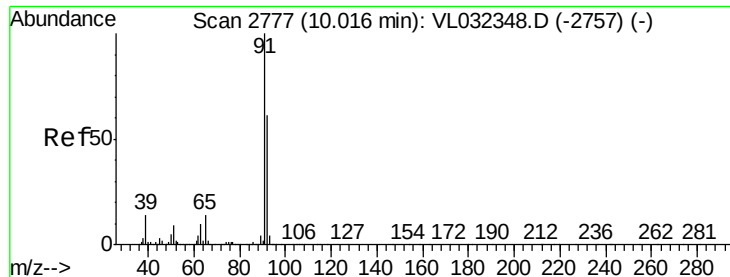
MMDadoda
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#52
Tetrachloroethene
Concen: 0.90 ppbv
RT: 11.44 min Scan# 3219
Delta R.T. -0.03 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Tgt Ion	Ratio	Lower	Upper
164	100		
166	115.4	100.0	150.0
129	97.6	87.9	131.9
131	101.8	83.8	125.8





#53

Toluene

Concen: 0.80 ppbv

RT: 10.01 min Scan# 2776

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 395772

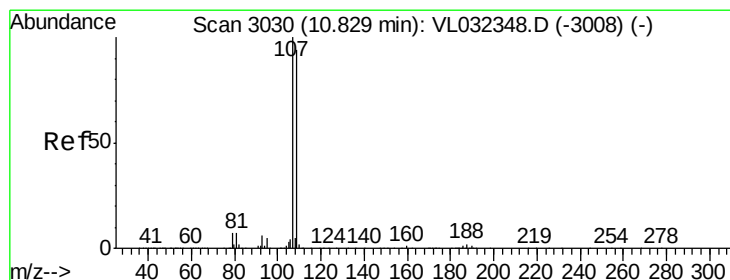
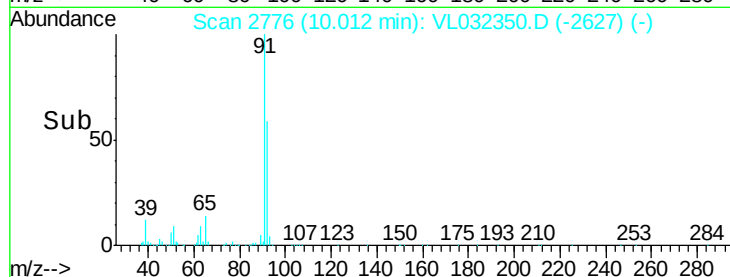
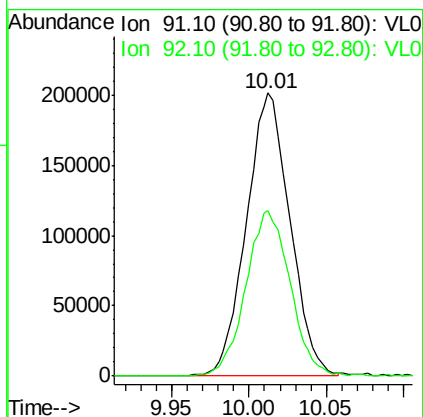
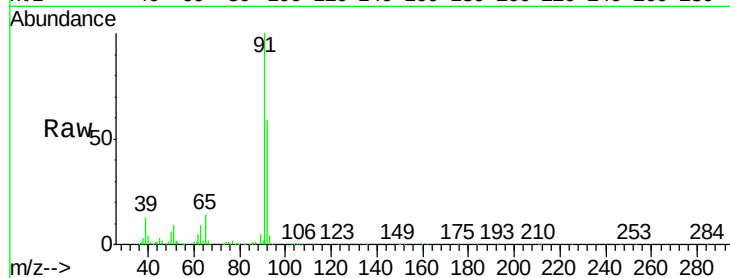
Ion Ratio Lower Upper

91 100

92 59.6 48.6 72.8

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#54

1,2-Dibromoethane

Concen: 0.84 ppbv

RT: 10.83 min Scan# 3029

Delta R.T. -0.03 min

Lab File: VL032350.D

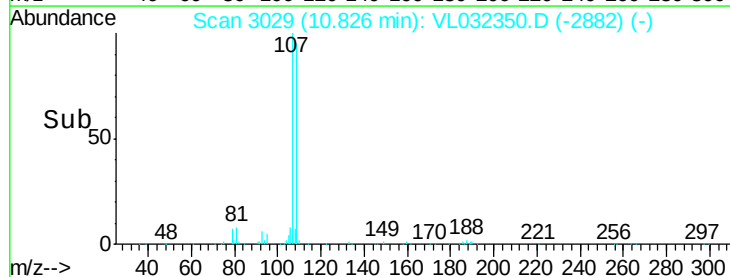
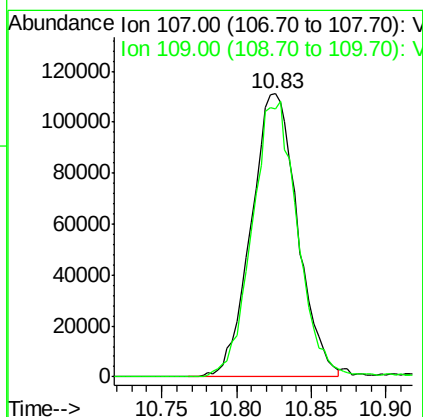
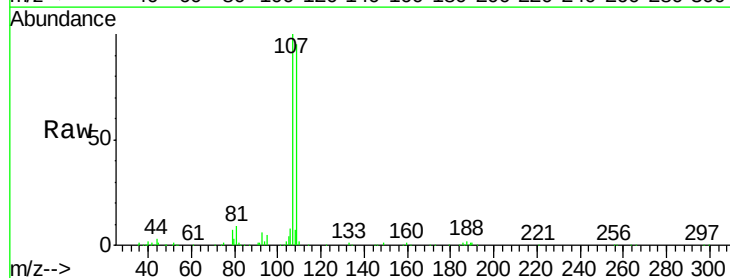
Acq: 15 Aug 2018 11:17

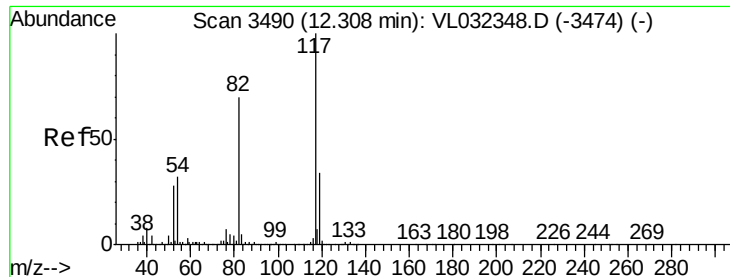
Tgt Ion: 107 Resp: 239391

Ion Ratio Lower Upper

107 100

109 94.8 74.1 111.1





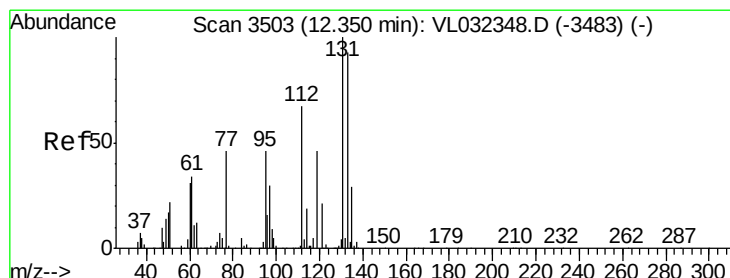
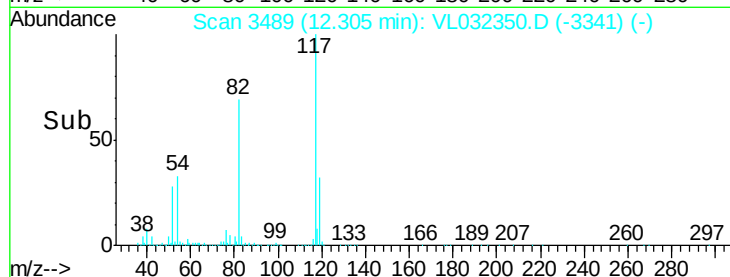
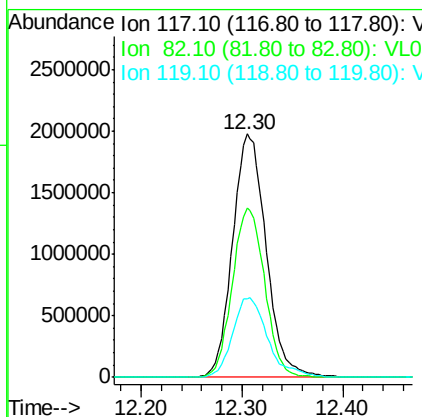
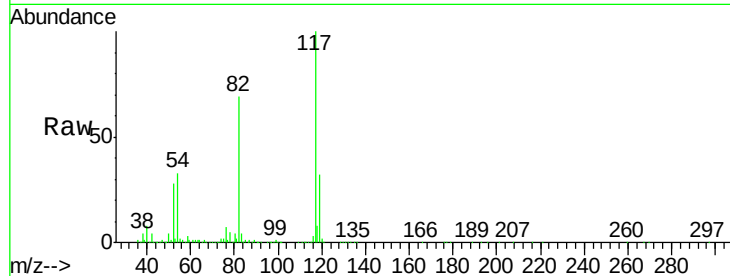
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.30 min Scan# 3489
Delta R.T. -0.02 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion:117 Resp: 4567640
Ion Ratio Lower Upper
117 100
82 67.4 52.6 78.8
119 34.6 25.7 38.5

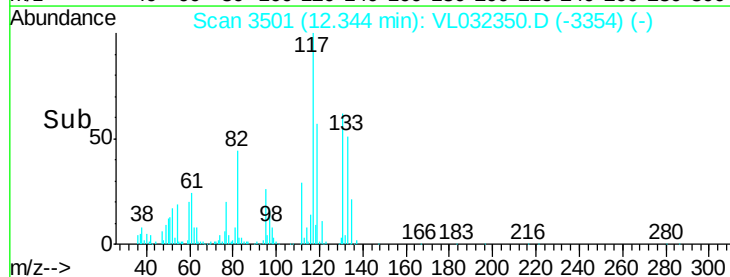
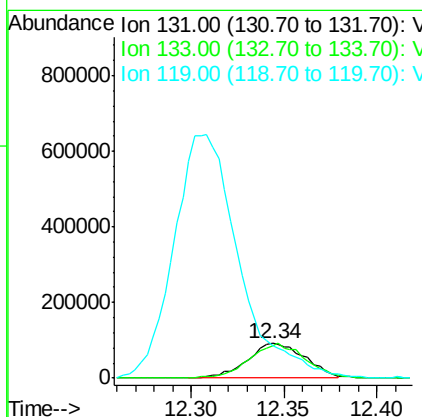
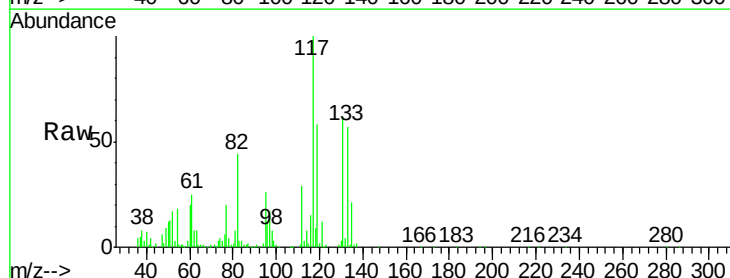
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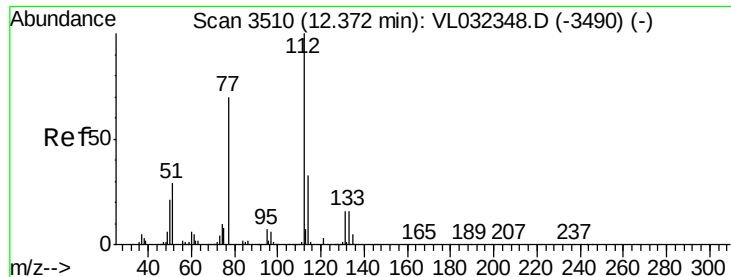
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 1.05 ppbv
RT: 12.34 min Scan# 3501
Delta R.T. -0.03 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Tgt Ion:131 Resp: 197005
Ion Ratio Lower Upper
131 100
133 97.6 75.8 113.6
119 802.0 48.1 72.1#





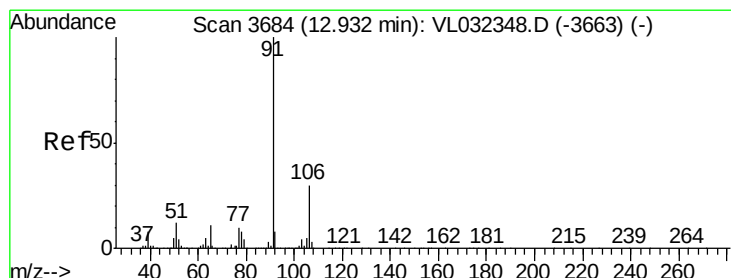
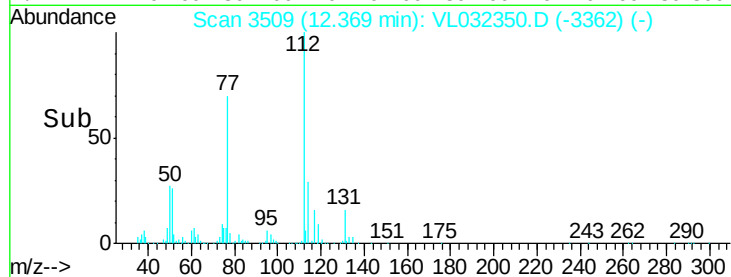
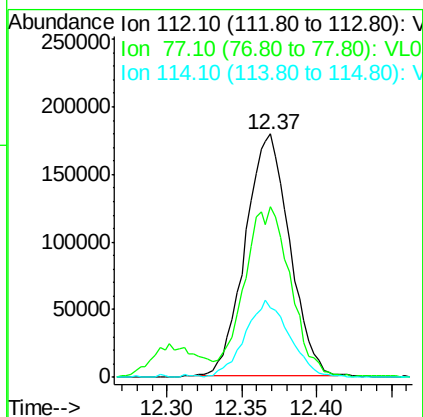
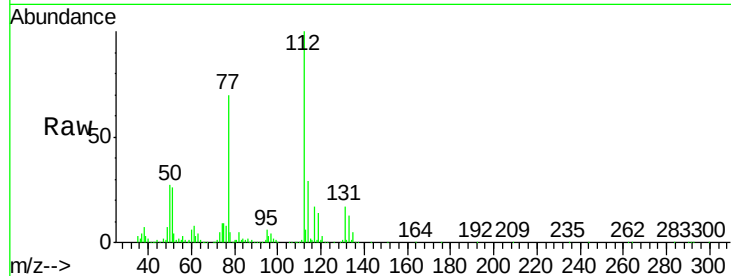
#57
Chlorobenzene
Concen: 1.04 ppbv
RT: 12.37 min Scan# 3509
Delta R.T. -0.03 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
112	100		
77	69.4	56.5	84.7
114	28.3	28.4	34.7#

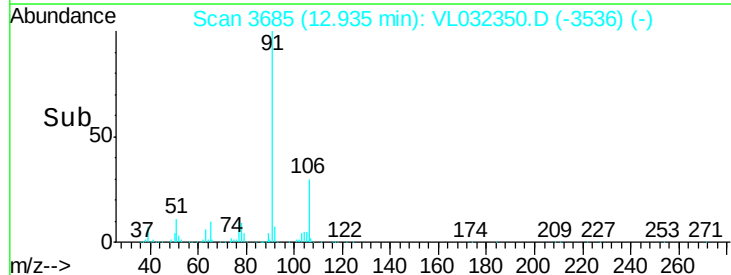
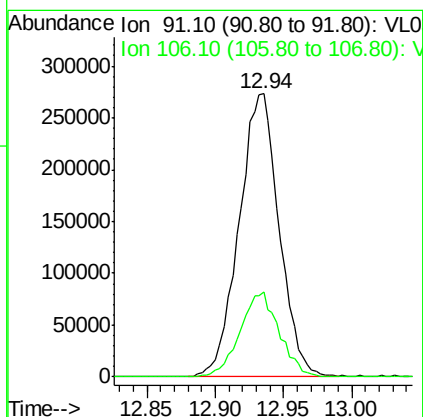
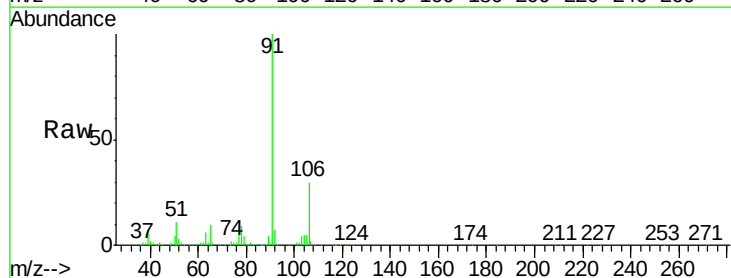
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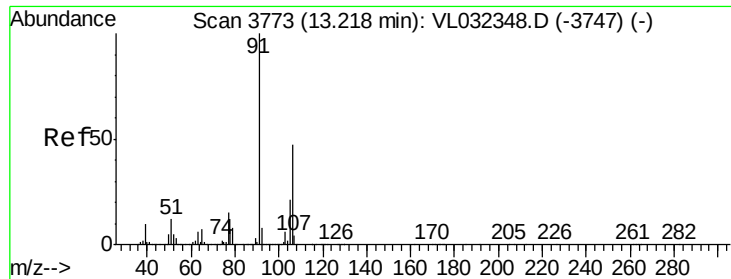
MMDadoda
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#58
Ethyl Benzene
Concen: 0.97 ppbv
RT: 12.94 min Scan# 3685
Delta R.T. -0.02 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.9	25.0	37.4





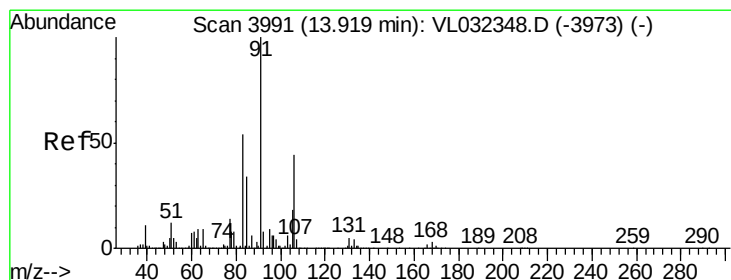
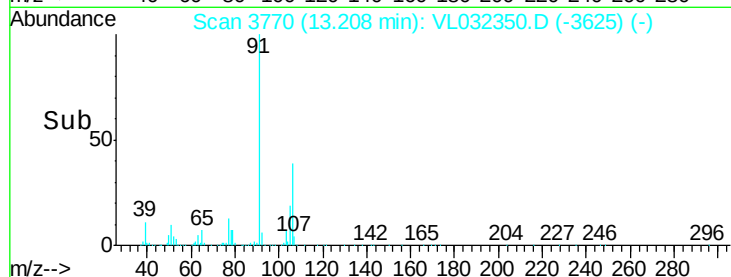
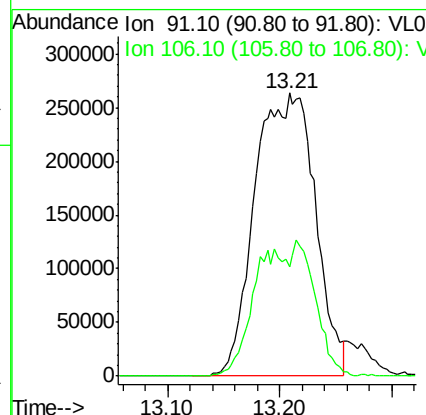
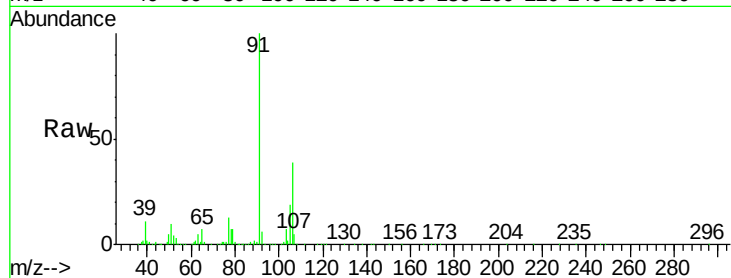
#59
m/p-Xylene
Concen: 2.02 ppbv m
RT: 13.21 min Scan# 3770
Delta R.T. -0.03 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 91 Resp: 984105
Ion Ratio Lower Upper
91 100
106 45.7 36.4 54.6

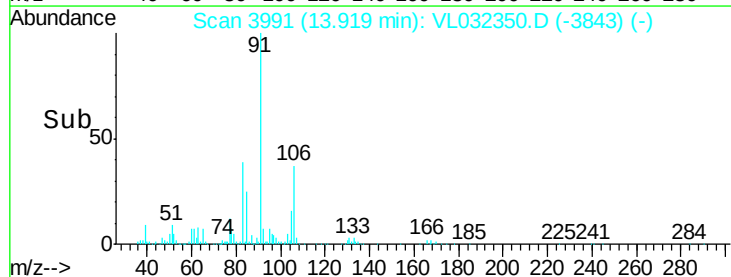
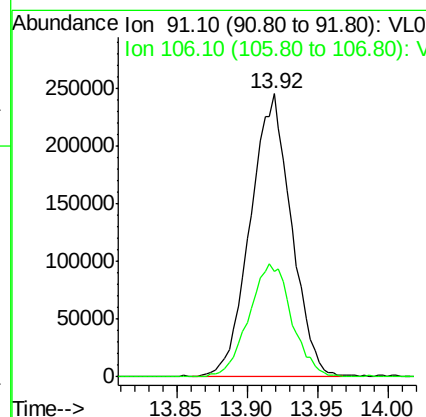
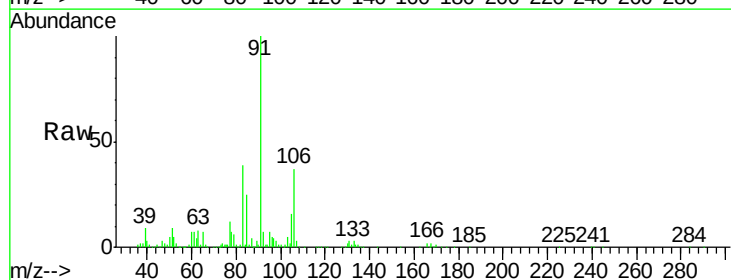
Manual Integrations
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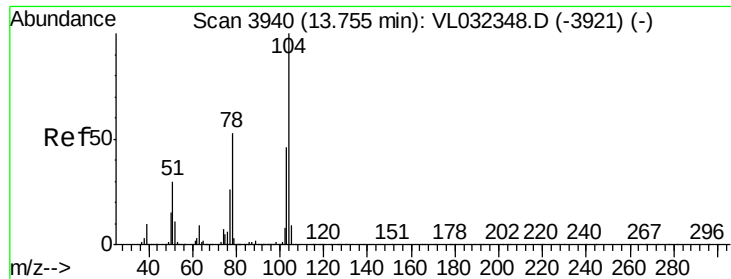
MMDadoda
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#60
o-Xylene
Concen: 1.04 ppbv
RT: 13.92 min Scan# 3991
Delta R.T. -0.02 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Tgt Ion: 91 Resp: 497997
Ion Ratio Lower Upper
91 100
106 41.7 22.4 67.0





#61

Stvrene

Concen: 0.87 ppbv

RT: 13.75 min Scan# 3939

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

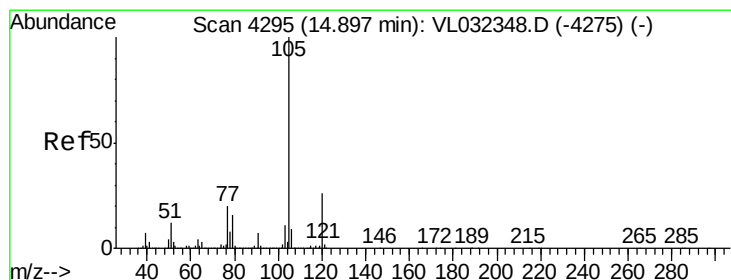
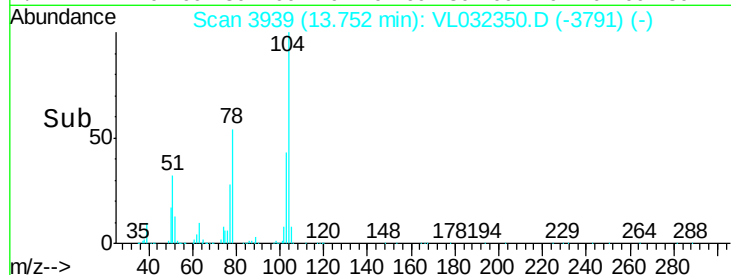
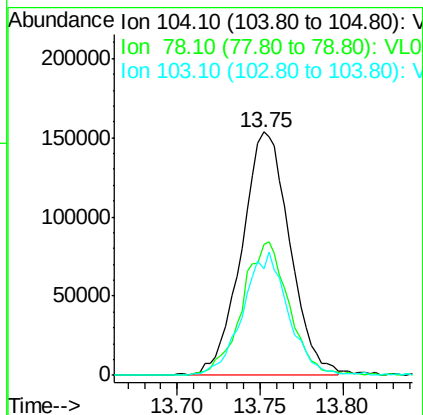
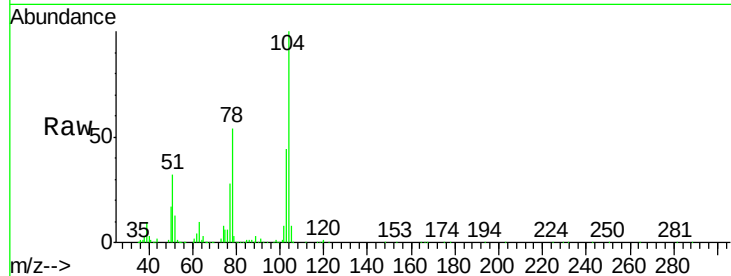
ClientSampleId :

VSTDIC001

Tot Ion:	104	Resp:	307732
Ion Ratio	Lower	Upper	
104	100		
78	54.3	42.6	63.8
103	48.2	38.0	57.0

Manual Integrations
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#62

Isopropylbenzene

Concen: 1.02 ppbv

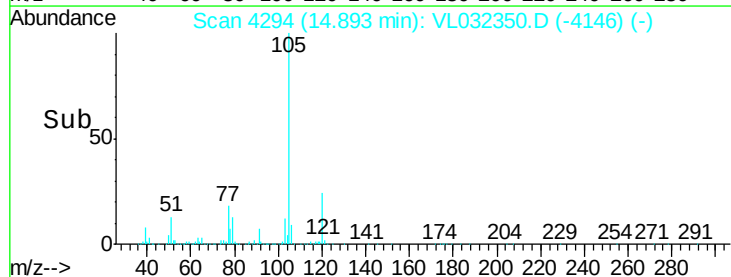
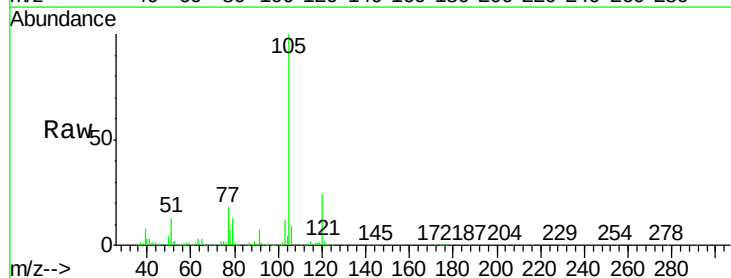
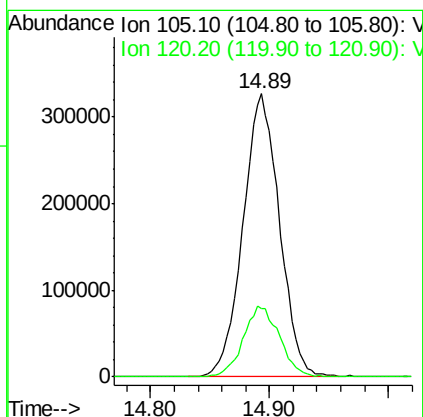
RT: 14.89 min Scan# 4294

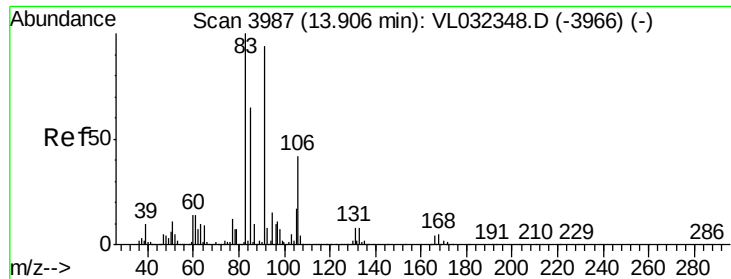
Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Tgt Ion:	105	Resp:	689716
Ion Ratio	Lower	Upper	
105	100		
120	25.1	20.4	30.6





#63

1,1,2,2-Tetrachloroethane

Concen: 1.09 ppbv

RT: 13.90 min Scan# 3986

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

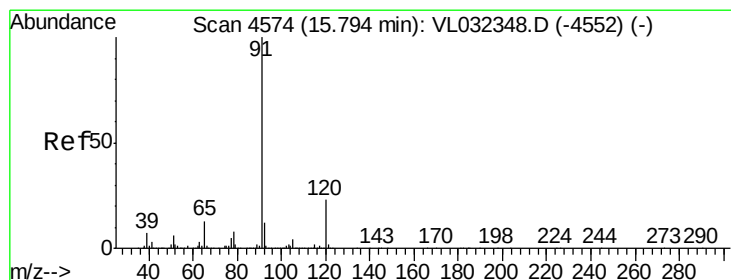
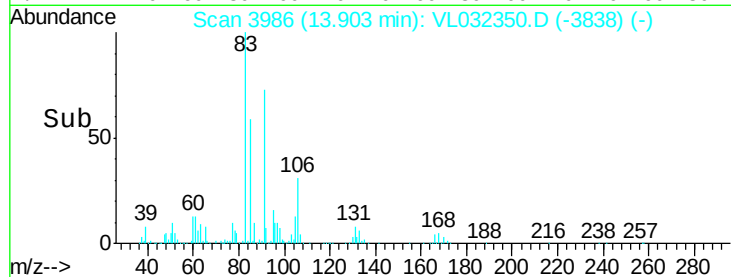
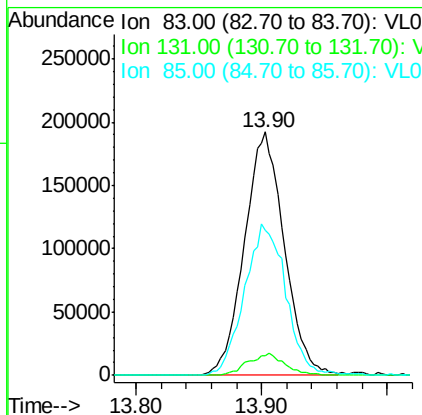
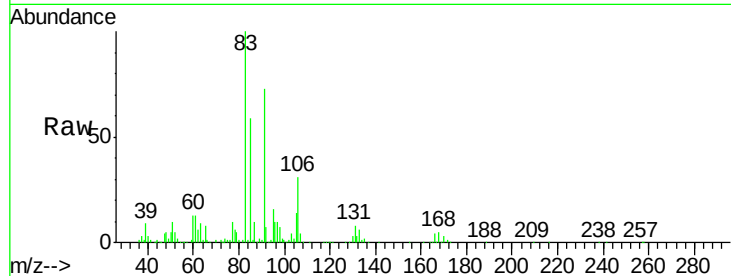
ClientSampleId :

VSTDIC001

Tot Ion:	83	Resp:	423465
Ion Ratio	Lower	Upper	
83	100		
131	8.5	4.3	12.8
85	64.8	32.6	97.7

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#64

n-propylbenzene

Concen: 0.99 ppbv

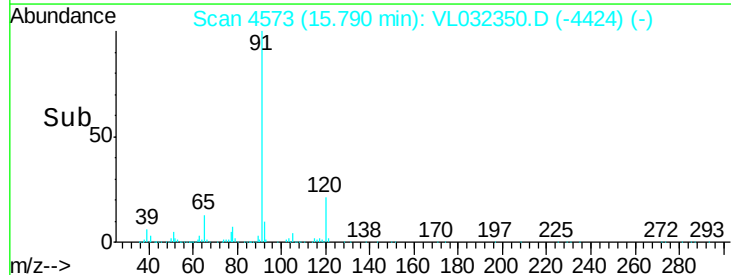
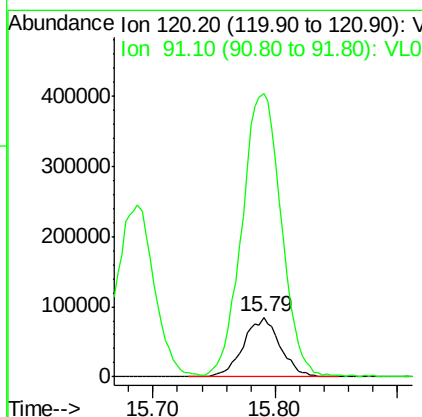
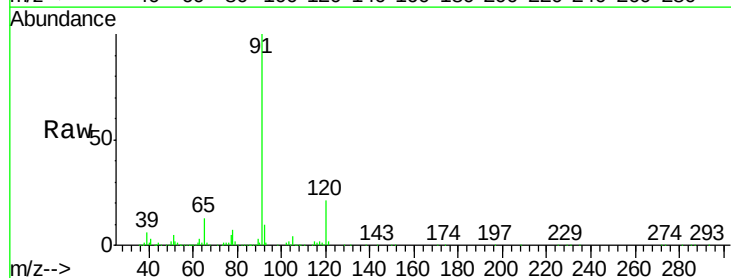
RT: 15.79 min Scan# 4573

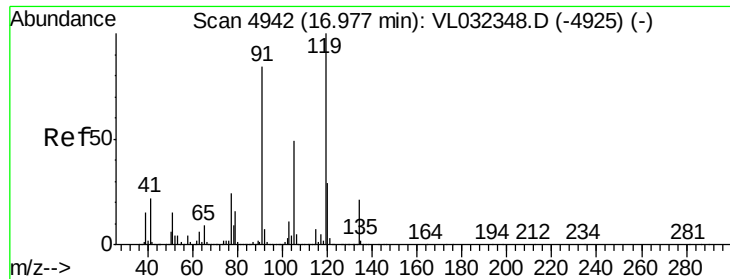
Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Tgt Ion:	120	Resp:	174715
Ion Ratio	Lower	Upper	
120	100		
91	514.0	381.8	572.8





#65

tert-Butylbenzene

Concen: 1.05 ppbv

RT: 16.98 min Scan# 4942

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

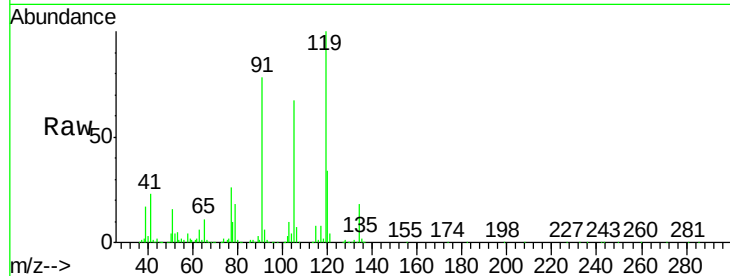
ClientSampleId :

VSTDIC001

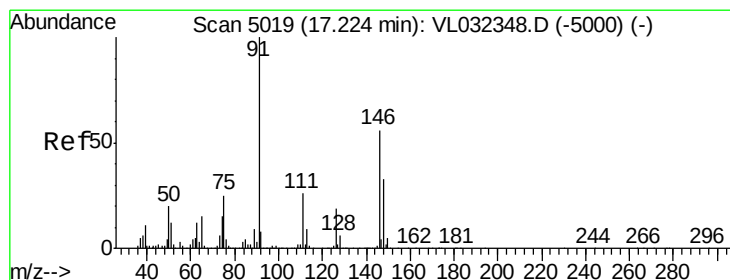
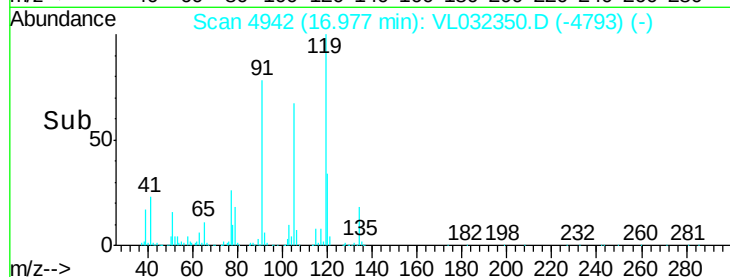
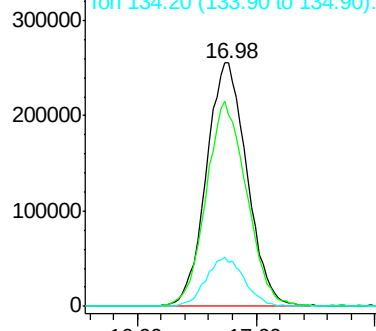
Tot Ion:	119	Resp:	603139
Ion Ratio	Lower	Upper	
119	100		
91	84.4	67.5	101.3
134	19.1	15.8	23.6

Manual Integrations
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Abundance Ion 119.20 (118.90 to 119.90): V



#66

Benzyl Chloride

Concen: 0.86 ppbv

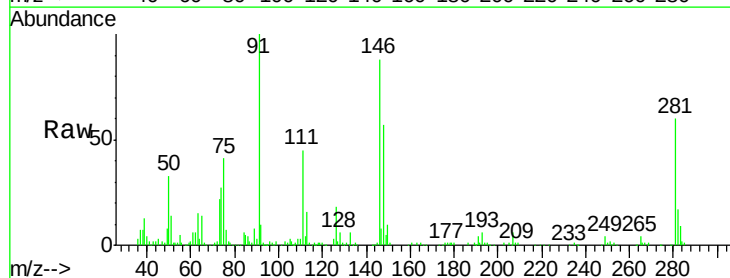
RT: 17.22 min Scan# 5018

Delta R.T. -0.03 min

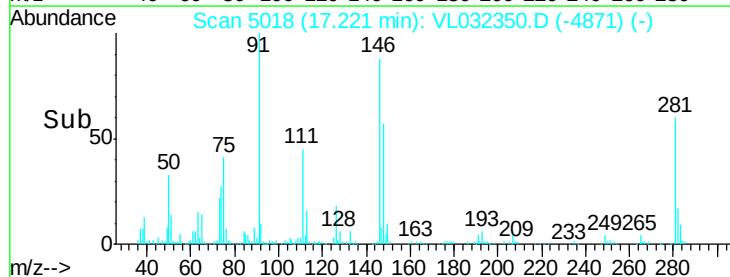
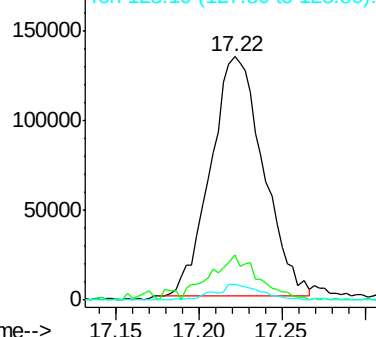
Lab File: VL032350.D

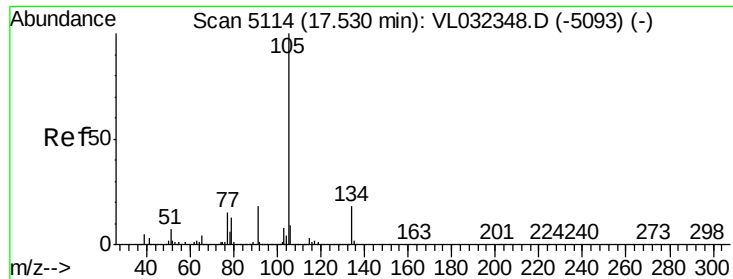
Acq: 15 Aug 2018 11:17

Tgt Ion:	91	Resp:	293613
Ion Ratio	Lower	Upper	
91	100		
126	20.1	13.7	20.5
128	6.2	4.3	6.5



Abundance Ion 91.10 (90.80 to 91.80): VL0





#67

sec-Butylbenzene

Concen: 1.03 ppbv

RT: 17.52 min Scan# 5112

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 105 Resp: 885875

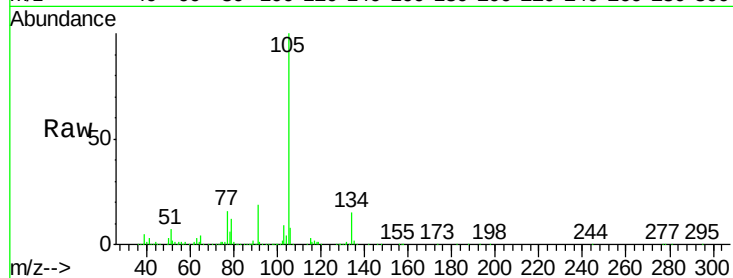
Ion Ratio Lower Upper

105 100

134 16.8 14.2 21.4

Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.52

400000

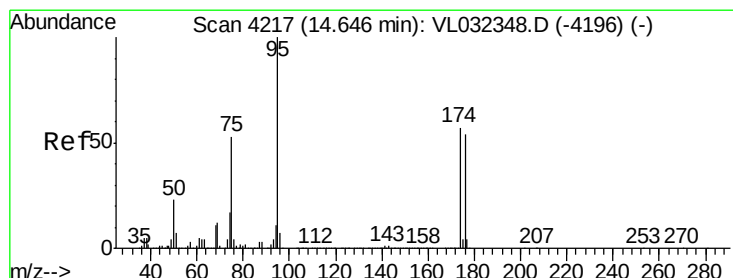
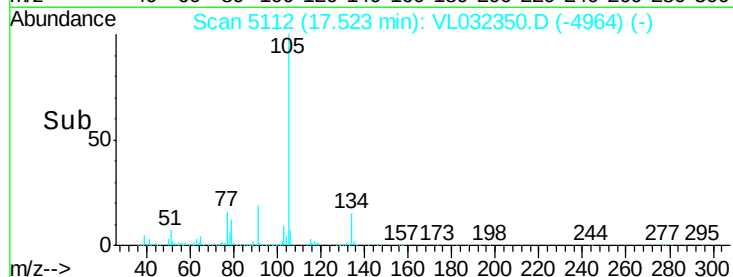
300000

200000

100000

0

Time--> 17.40 17.50 17.60



#68

1-Bromo-4-Fluorobenzene

Concen: 9.89 ppbv

RT: 14.64 min Scan# 4216

Delta R.T. -0.03 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

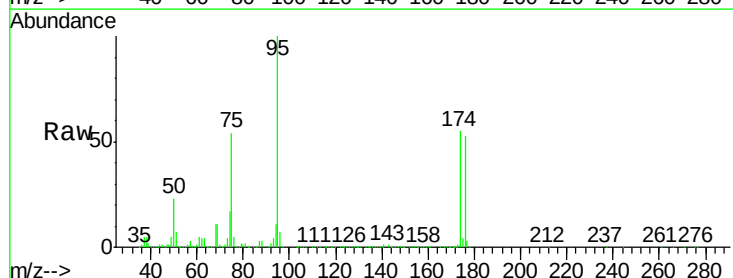
Tgt Ion: 95 Resp: 3507945

Ion Ratio Lower Upper

95 100

174 56.9 45.5 68.3

175 4.1 3.3 4.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

2000000

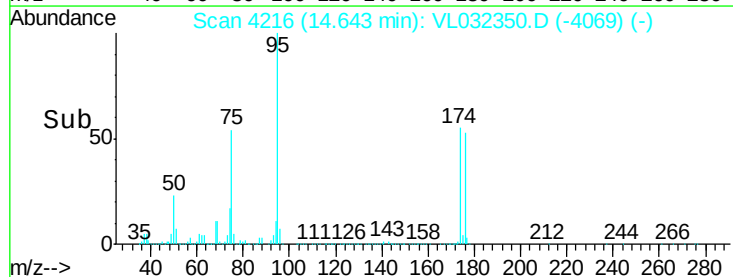
1500000

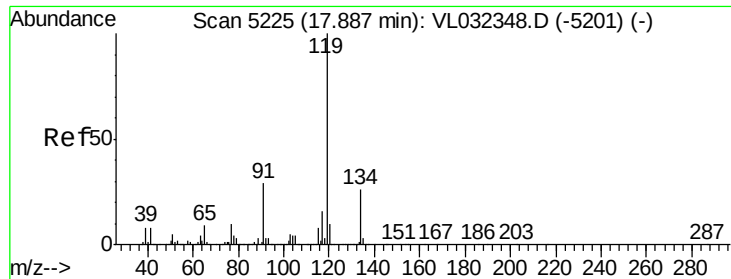
1000000

500000

0

Time--> 14.60 14.70





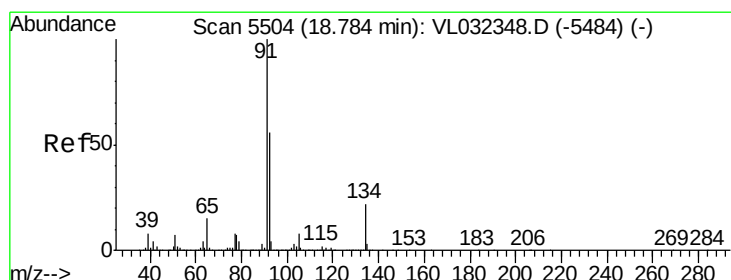
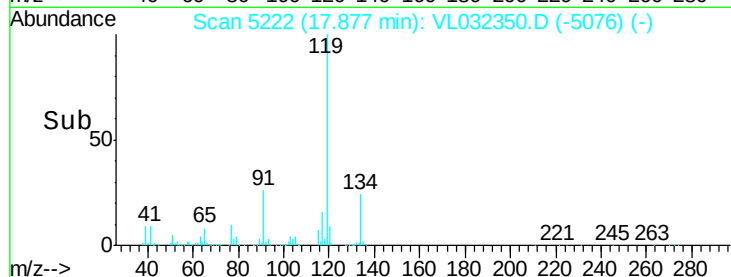
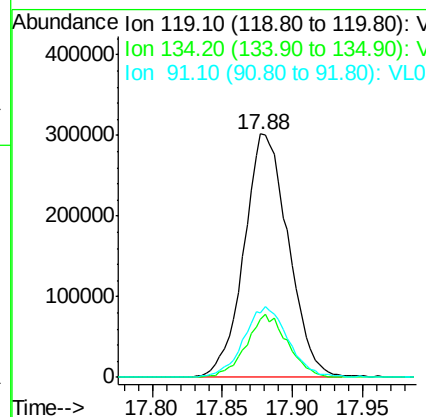
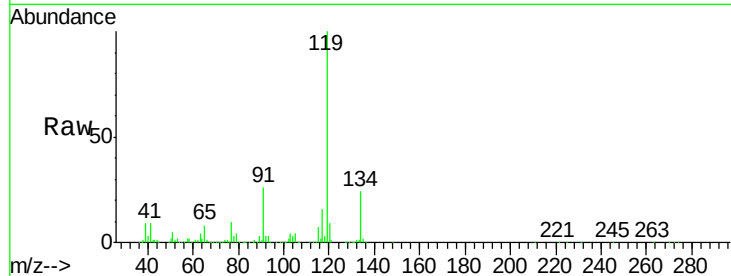
#69
 p-Isopropyltoluene
 Concen: 0.99 ppbv
 RT: 17.88 min Scan# 5222
 Delta R.T. -0.03 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion:	119	Resp:	660971
Ion Ratio	Lower	Upper	
119	100		
134	24.3	20.3	30.5
91	29.5	23.8	35.6

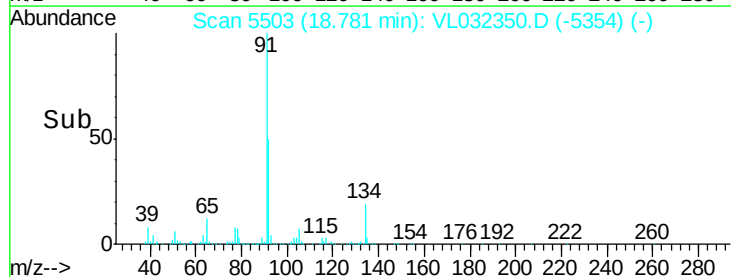
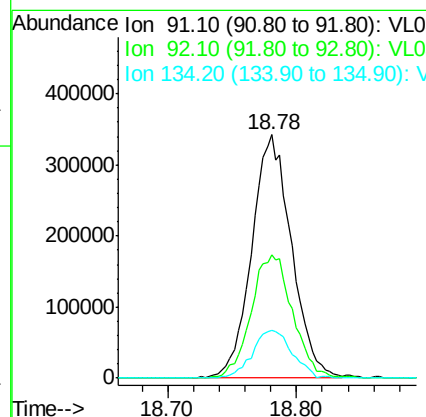
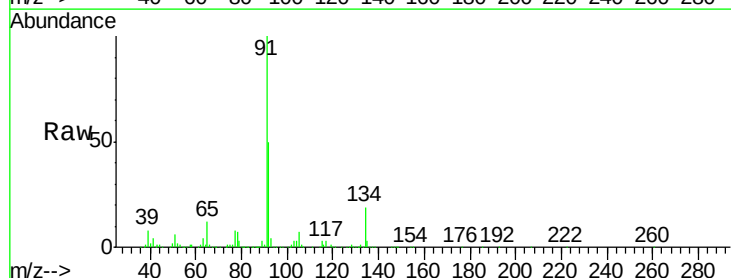
Manual Integrations
 APPROVED

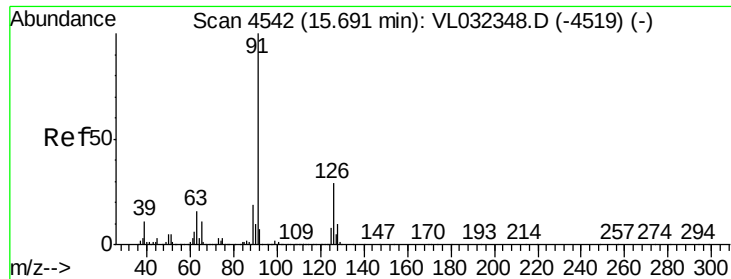
MMDadoda
 8/17/2018 2:06:24 PM



#70
 n-Butylbenzene
 Concen: 0.96 ppbv
 RT: 18.78 min Scan# 5503
 Delta R.T. -0.02 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Tgt Ion:	91	Resp:	734925
Ion Ratio	Lower	Upper	
91	100		
92	52.9	44.2	66.4
134	19.8	17.4	26.2





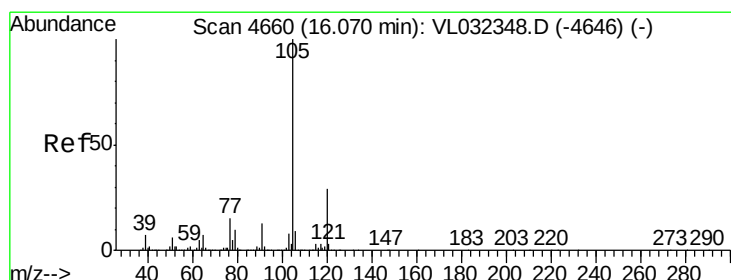
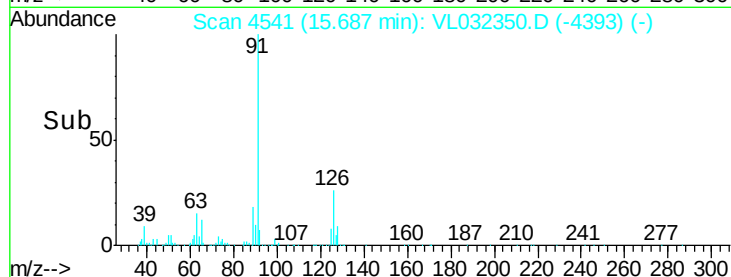
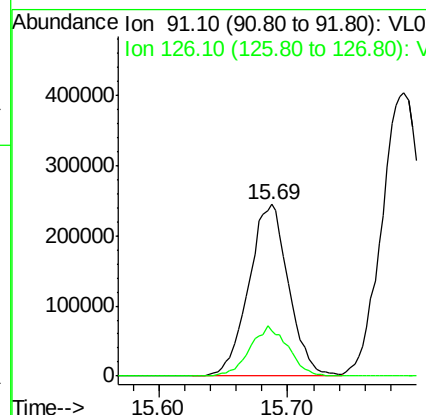
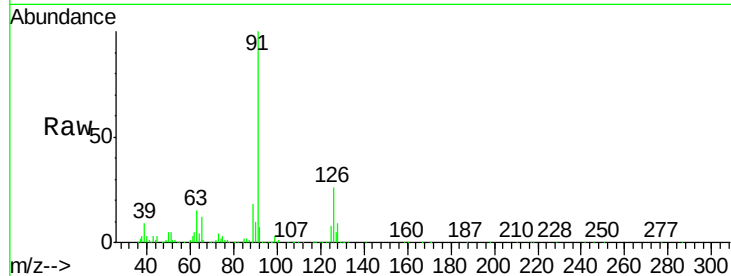
#71
 2-Chlorotoluene
 Concen: 0.98 ppbv
 RT: 15.69 min Scan# 4541
 Delta R.T. -0.02 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
91	100		
126	28.3	11.8	47.0

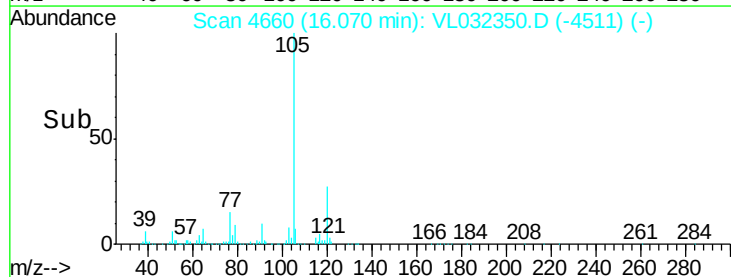
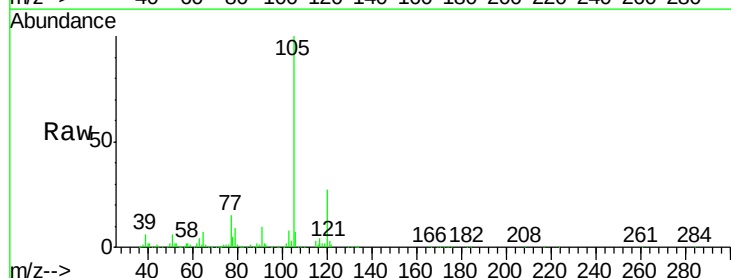
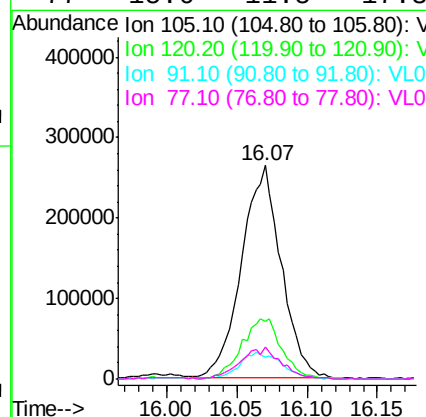
Manual Integrations
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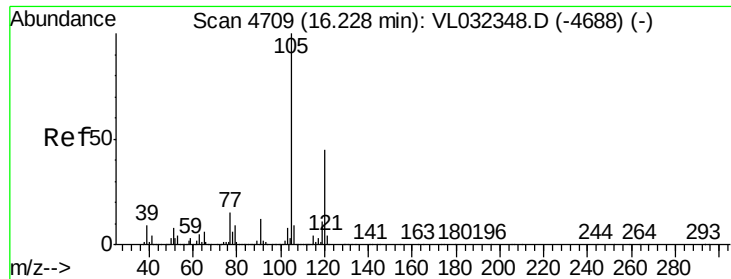
MMDadoda
 8/17/2018 2:06:24 PM



#72
 4-Ethyltoluene
 Concen: 0.97 ppbv
 RT: 16.07 min Scan# 4660
 Delta R.T. -0.02 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Tgt Ion	Ratio	Lower	Upper
105	100		
120	29.0	23.1	34.7
91	14.7	10.0	15.0
77	15.6	11.5	17.3





#73

1,3,5-Trimethylbenzene

Concen: 0.95 ppbv

RT: 16.22 min Scan# 4708

Delta R.T. -0.03 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 499869

Ion Ratio Lower Upper

105 100

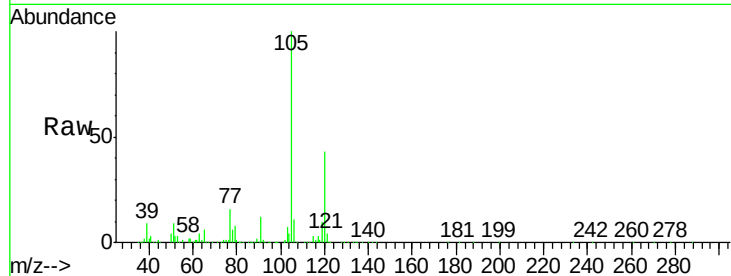
120 43.0 36.5 54.7

Manual Integrations

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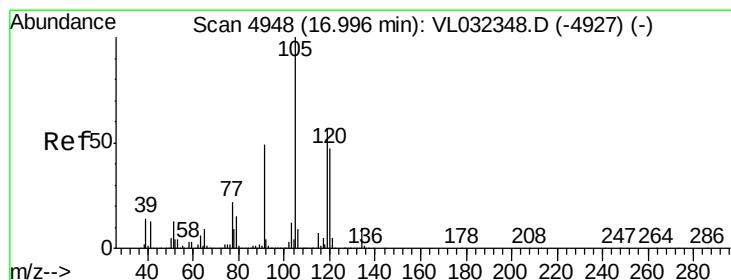
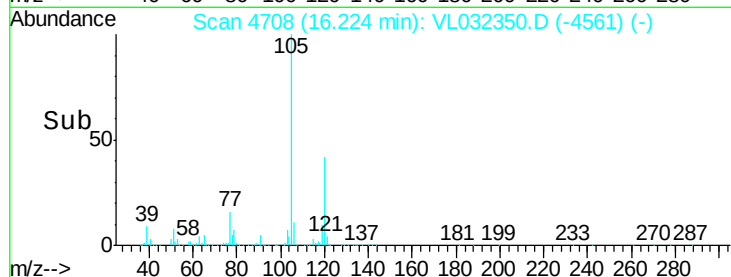
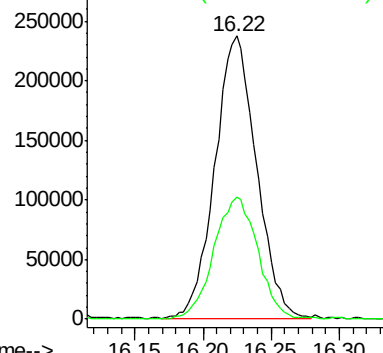
MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.01 ppbv

RT: 16.99 min Scan# 4946

Delta R.T. -0.03 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Tgt Ion:105 Resp: 561204

Ion Ratio Lower Upper

105 100

120 45.3 37.8 56.6

91 52.0 39.4 59.0

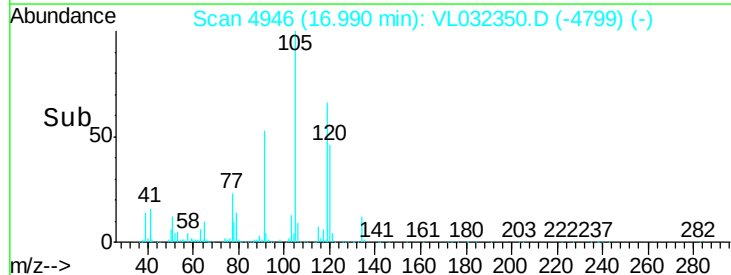
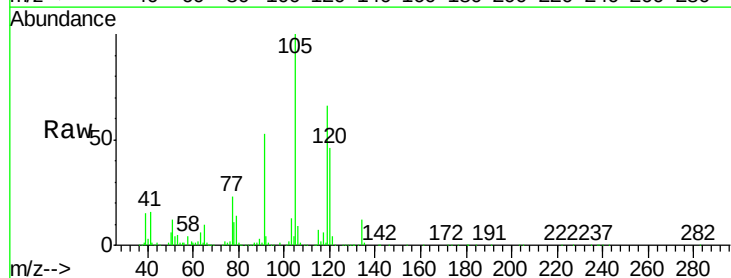
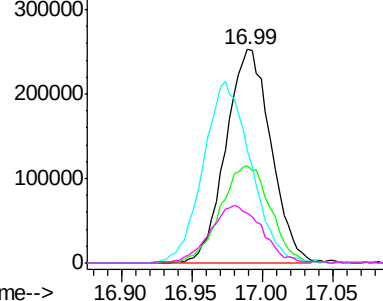
77 22.9 17.6 26.4

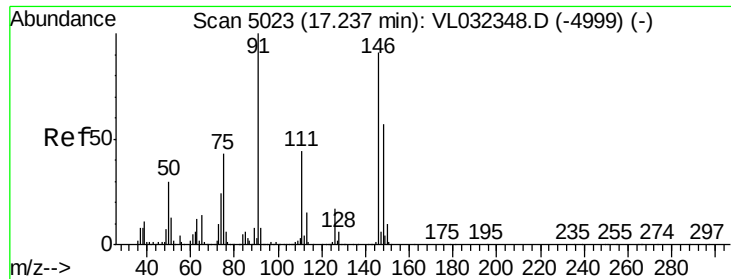
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





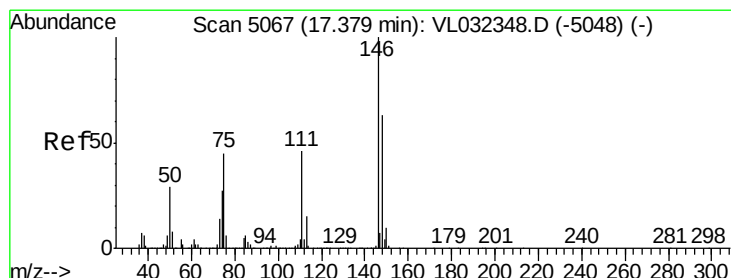
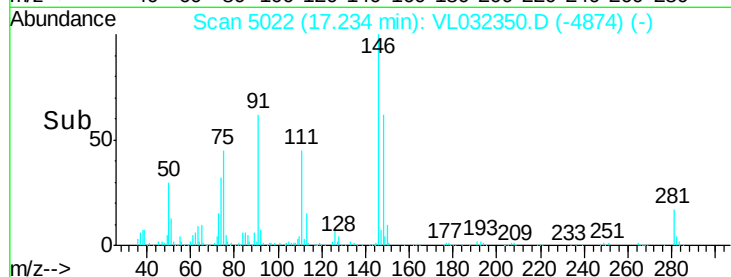
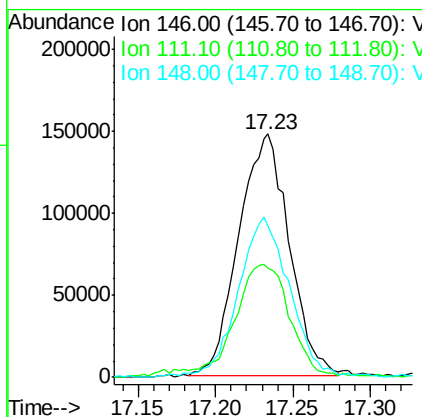
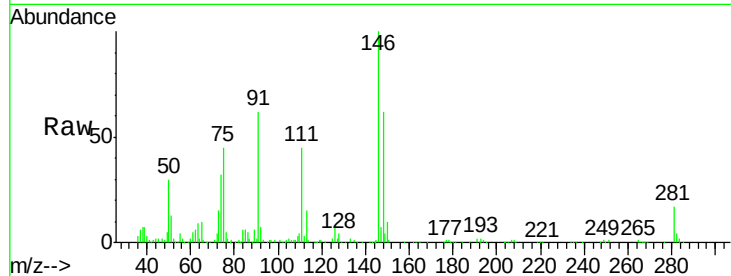
#75
 1,3-Dichlorobenzene
 Concen: 1.04 ppbv
 RT: 17.23 min Scan# 5022
 Delta R.T. -0.02 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	52.7	24.6	73.8
148	68.3	31.6	95.0

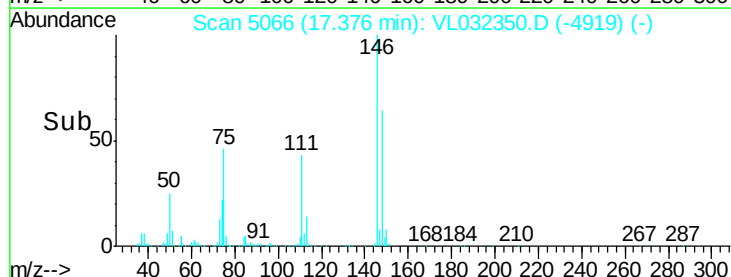
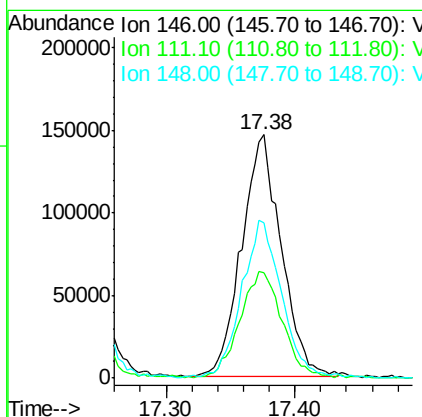
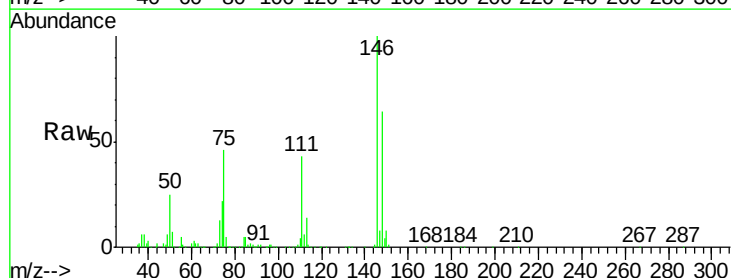
Manual Integrations
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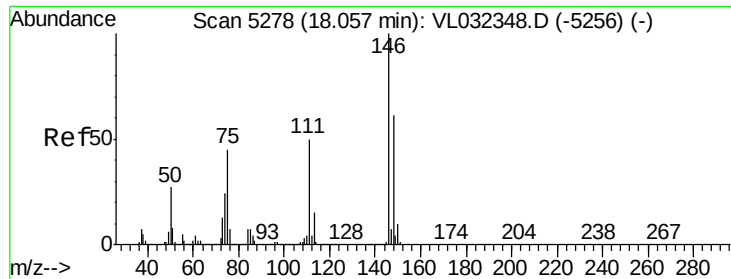
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#76
 1,4-Dichlorobenzene
 Concen: 1.01 ppbv
 RT: 17.38 min Scan# 5066
 Delta R.T. -0.03 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.0	23.6	70.8
148	66.7	32.1	96.3





#77

1,2-Dichlorobenzene

Concen: 0.99 ppbv m

RT: 18.06 min Scan# 5279

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:146 Resp: 313538

Ion Ratio Lower Upper

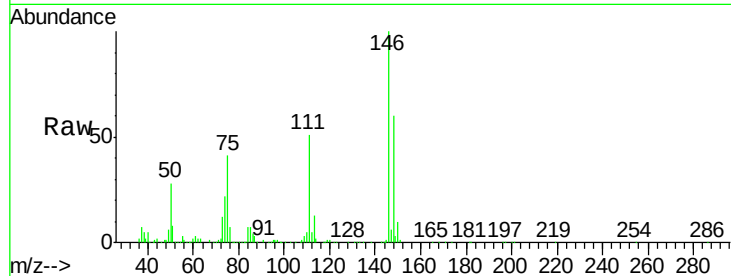
146 100

111 0.0 25.1 75.3#

148 66.0 31.9 95.7

Manual Integrations
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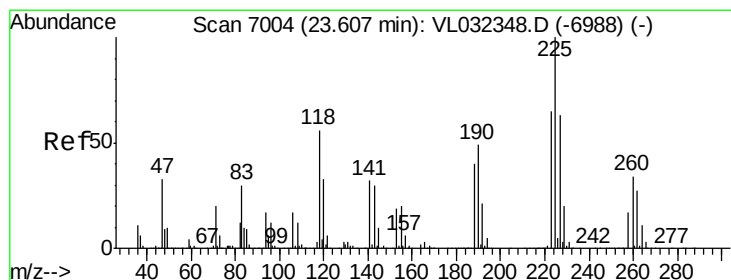
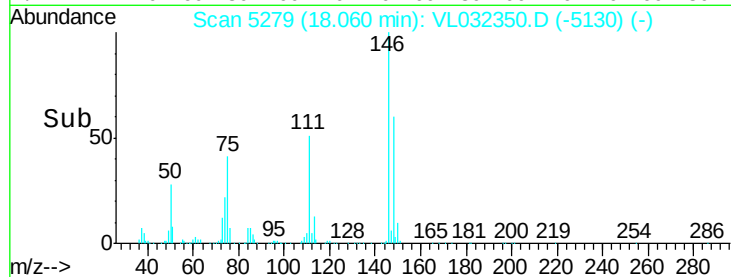
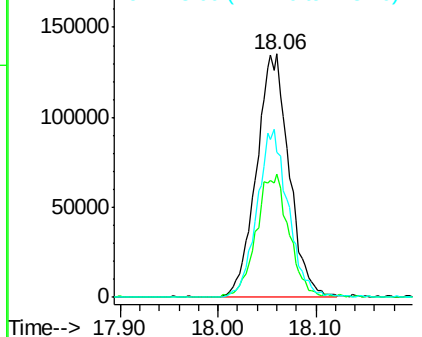
MMDadoda
8/17/2018 2:06:24 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 1.01 ppbv m

RT: 23.61 min Scan# 7005

Delta R.T. -0.02 min

Lab File: VL032350.D

Acq: 15 Aug 2018 11:17

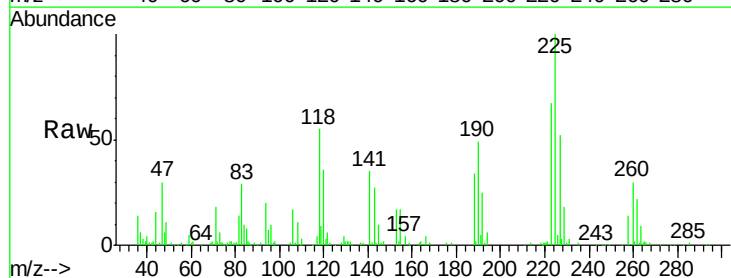
Tgt Ion:225 Resp: 112726

Ion Ratio Lower Upper

225 100

223 0.0 50.5 75.7#

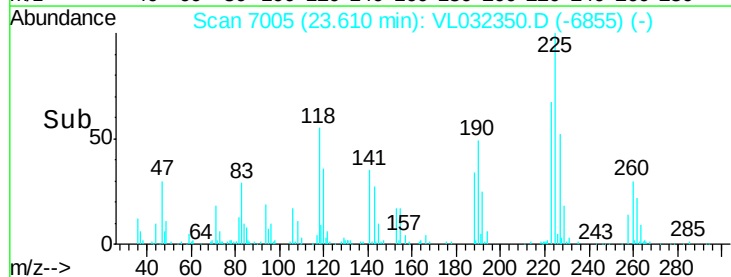
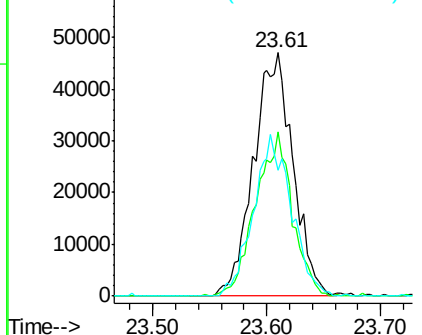
227 64.0 51.3 76.9

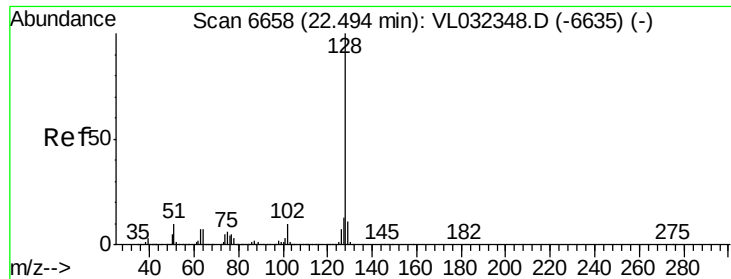


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





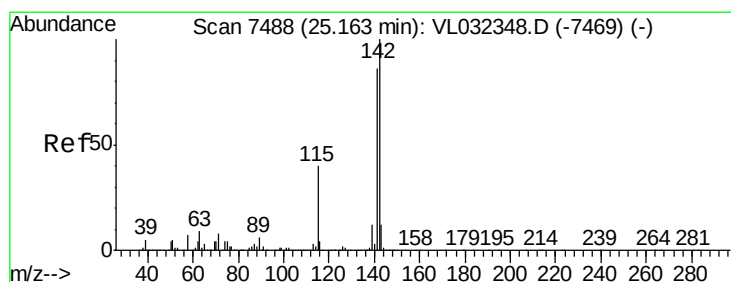
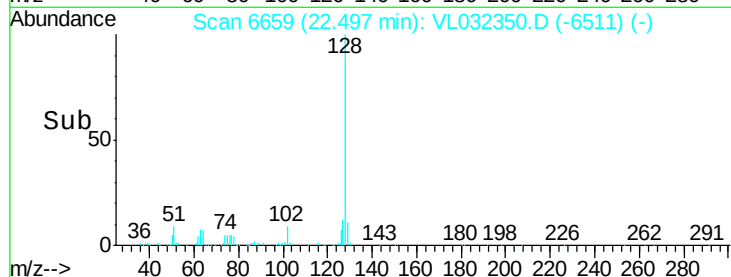
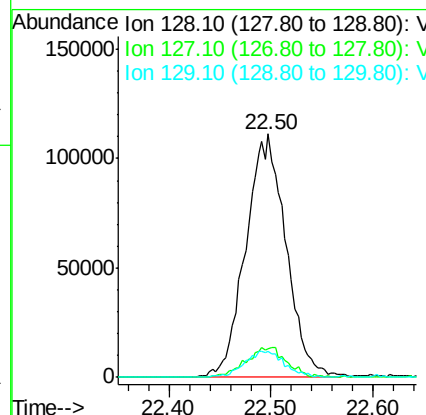
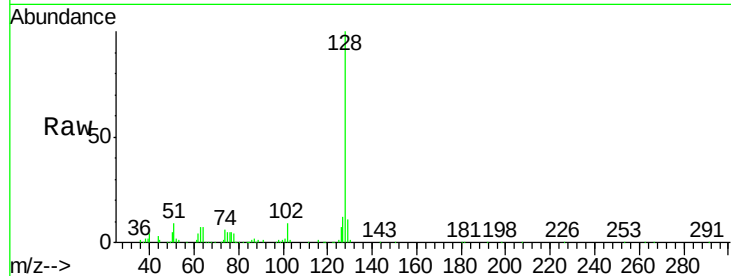
#79
Naphthalene
Concen: 0.63 ppbv m
RT: 22.50 min Scan# 6659
Delta R.T. -0.02 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
128	100			
127	12.0	9.9	14.9	
129	10.9	8.8	13.2	

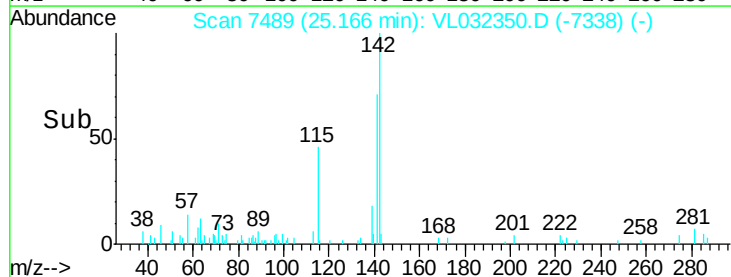
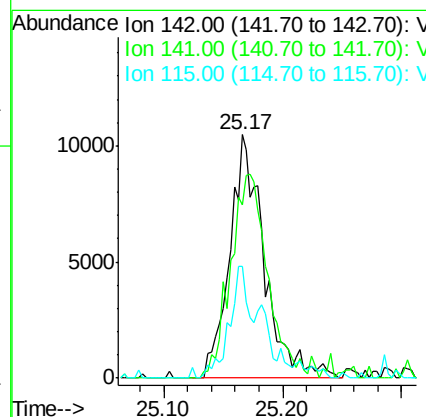
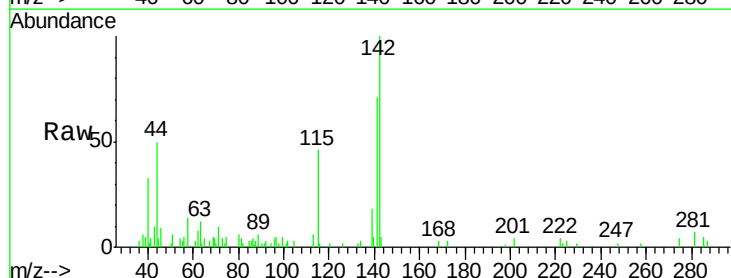
Manual Integrations
APPROVED

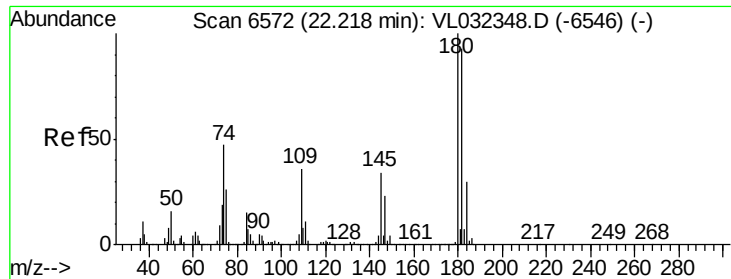
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#80
Naphthalene, 2-methyl-
Concen: 0.11 ppbv
RT: 25.17 min Scan# 7489
Delta R.T. -0.01 min
Lab File: VL032350.D
Acq: 15 Aug 2018 11:17

Tgt Ion	Ratio	Resp	Lower	Upper
142	100			
141	91.5	66.7	100.1	
115	45.7	31.1	46.7	





#81
 1,2,4-Trichlorobenzene
 Concen: 0.73 ppbv
 RT: 22.22 min Scan# 6572
 Delta R.T. -0.02 min
 Lab File: VL032350.D
 Acq: 15 Aug 2018 11:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
180	100		
182	99.0	76.2	114.2
184	31.3	24.3	36.5

Manual Integrations
 APPROVED

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